SUBJECT INDEX

Acid rain

Integrated Assessment of Acid-Deposition Effects on Lake Acidification, Edward S. Rubin, Mitchell J. Small, Cary N. Bloyd and Max Henrion, EE Jan./Feb. 92, p120-134.

Activated carbon

Finite Element Modeling of Single-Solute Activated-Carbon Adsorption, M. Akram Hossain and David R. Yonge, EE Mar./Apr. 92, p238-252.

Activated carbon treatment

Evaluation of BAT for VOCs in Drinking Water, Robert M. Clark and Jeffrey Q. Adams, EE Mar./Apr. 91, p247-268.

Modeling of Toxic Wastewater Treatment by Expanded-Bed Anaerobic GAC Reactors, G. F. Nakhla and M. T. Suidan, EE July/Aug. 92, p495-512.

Activated sludge

Improvement of Flow in Final Settling Tanks, Ulrich Bretscher, Peter Krebs and Willi H. Hager, EE May/June 92, p307-321.

Modeling and Pilot-Scale Experimental Verification for Predenitrification Process, J. Hamilton, R. Jain, P. Antoniou, S. A. Svoronos, B. Koopman and G. Lyberatos, EE Jan./Feb. 92, p38-55.

Operational Strategies for Predenitrification Process, R. Jain, G. Lyberatos, S. A. Svoronos and B. Koopman, EE Jan./Feb. 92, p56-67.

Activated sludge process

Gas Phase Control for Oxygen-Activated Sludge, R. C. Clifft, EE May/June 92, p390-401.

Adhesive bonding

Investigation of Zebra Mussel Adhesion Strength Using a Rotating Disk, Josef Daniel Ackerman, C. Ross Ethier, D. Grant Allen and Jan K. Spelt, EE Sept./Oct. 92, p708-724.

Adsorption

Finite Element Modeling of Single-Solute Activated-Carbon Adsorption, M. Akram Hossain and David R. Yonge, EE Mar./Apr. 92, p238-252.

Modeling of Toxic Wastewater Treatment by Expanded-Bed Anaerobic GAC Reactors, G. F. Nakhla and M. T. Suidan, EE July/Aug. 92, p495-512.

Wave Front Behavior in Adsorption Reactors, Federico Vagliasindi and David W. Hendricks, EE July/Aug. 92, p530-550.

Aeration

Aeration at Ohio River Basin Navigation Dams, Steven F. Railsback, John M. Bownds, Michael J. Sale, Martha M. Stevens and George H. Taylor, EE Mar./Apr. 90, p361-375.

Evaluation of BAT for VOCs in Drinking Water, Robert M. Clark and Jeffrey Q. Adams, EE Mar./Apr. 91, p247-268.

Gas Phase Control for Oxygen-Activated Sludge, R. C. Clifft, EE May/June 92, p390-401.

Aeration tanks

Numerical and Physical Modeling of Air Diffuser Plume, D. W. Machina, J. A. McCorquodale and J. K. Bewtra, EE Mar./Apr. 92, p253-267.

Air pollution

Integrated Assessment of Acid-Deposition Effects on Lake Acidification, Edward S. Rubin, Mitchell J. Small, Cary N. Bloyd and Max Henrion, EE Jan./Feb. 92, p120-134.

Air stripping

Removal of 1,2 Dibromo-3-Chloropropane by Countercurrent Cascade Air Stripping, N. Nirmalakhandan, Won Jang and Richard E. Speece, EE Mar./Apr. 92, p226-237.

Alums

Chemical Dosing of Small Water Utilities Using Regression Analysis, Glenn W. Ellis, Anthony G. Collins, Xi Ge and Catherine R. Ford, EE May/June 91, p308-319.

Ammonia

Thermodynamic Model of Nitrification Kinetics, Thongchai Yantarasri, Albert Garcia, III. and David Brune, EE July/Aug. 92, p568-584.

Anaerobic digestion

Conditioning and Dewatering of Anaerobically Digested BPR Sludge, William R. Knocke, Jeffrey W. Nash and Clifford W. Randall, EE Sept./Oct. 92, p642-656.

Expert System for Anaerobic-Digestion-Process Operation, Michael W. Barnett and John F. Andrews, EE Nov./Dec. 92, p949-963.

pH Control in Anaerobic Treatment of Industrial Wastewater, G. K. Anderson and G. Yang, EE July/Aug. 92, p551-567.

Analysis

Mechanism of Biological Treatment in Plug-Flow or Batch Systems, Hasan Ali San, EE July/Aug. 92, p614-628.

Anion exchange

Removing Selenium(IV) and Arsenic(V) Oxyanions with Tailored Chelating Polymers, Anuradha Ramana and Arup K. Sengupta, EE Sept./Oct. 92, p755-775.

Aquifers

Migration of Chloroform in Aquifers, Sergio E. Serrano, EE Mar./Apr. 92, p167-182.

Simulating Solute Transport Using Laboratory-Based Sorption Parameters, Thomas C. Harmon, Lewis Semprini and Paul V. Roberts, EE Sept./Oct. 92, p666-689.

Arsenic

Removing Selenium(IV) and Arsenic(V) Oxyanions with Tailored Chelating Polymers, Anuradha Ramana and Arup K. Sengupta, EE Sept./Oct. 92, p755-775.

Backwashing

Calculating Flow in Manifold and Orifice System, Fazal H. Chaudhry and Luisa F. R. Reis, EE July/Aug. 92, p585-596.

Velocity Gradient in Filter Backwashing, Mustafa Turan, EE Sept./Oct. 92, p776-790.

Bacteria

Evaluation of Ozone Disinfection Systems: Characteristic Time *T*, O. Lev and S. Regli, EE Mar./Apr. 92, p268-285.

Evaluation of Ozone Disinfection Systems: Characteristic Concentration *C*, O. Lev and S. Regli, EE July/Aug. 92, p477-494.

QSAR Parameters for Toxicity of Organic Chemicals to *Nitrobacter*, N. H. Tang, D. J. W. Blum, R. E. Speece and N. Nirmalakhandan, EE Jan./Feb. 92, p17-37.

Batch processing

Mechanism of Biological Treatment in Plug-Flow or Batch Systems, Hasan Ali San, EE July/Aug. 92, p614-628.

Beds

Velocity Gradient in Filter Backwashing, Mustafa Turan, EE Sept./Oct. 92, p776-790.

Bioassay

QSAR Parameters for Toxicity of Organic Chemicals to *Nitrobacter*, N. H. Tang, D. J. W. Blum, R. E. Speece and N. Nirmalakhandan, EE Jan./Feb. 92, p17-37.

Water, Endangered Ecosystem: Assessment of Chemical Pollution, Werner Stumm, EE July/Aug. 92, p466-476.

Biochemical oxygen demand

BOD Test for Tropical Countries, Nilay Choudhari, Paritosh C. Tyagi, N. Niyogi, V. P. Thergaonkar and P. Khanna, EE Mar./Apr. 92, p298-303.

Modeling DO Conditions in Streams with Dispersion, Antonis D. Koussis, Prashant Kokitkar and Adosh Mehta, EE May/June 90, p601-614.

Biodegradation

Modeling of Toxic Wastewater Treatment by Expanded-Bed Anaerobic GAC Reactors, G. F. Nakhla and M. T. Suidan, EE July/Aug. 92, p495-512.

Biological treatment

Activity of Biomass in RBC System Treating Pulp Industrial Wastewater, Boshou Pan and L. Hartmann, EE Sept./Oct. 92, p744-754.

Conditioning and Dewatering of Anaerobically Digested BPR Sludge, William R. Knocke, Jeffrey W. Nash and Clifford W. Randall, EE Sept./Oct. 92, p642-656.

Mechanism of Biological Treatment in Plug-Flow or Batch Systems, Hasan Ali San, EE July/Aug. 92, p614-628.

Metallurgical Residue for Solubilization of Metals from Sewage Sludge, D. Couillard and G. Mercier, EE Sept./Oct. 92, p808-813.

Model for Biological Reactors Having Suspended and Attached Growths, Chi-Yuan Lee, EE Nov./Dec. 92, p982-987.

Biomass

Activity of Biomass in RBC System Treating Pulp Industrial Wastewater, Boshou Pan and L. Hartmann, EE Sept./Oct. 92, p744-754.

Effect of Nitrogen on Yield Using Bioenergetics Theory, R. L. Droste, EE Sept./Oct. 92, p814-820.

Model for Biological Reactors Having Suspended and Attached Growths, Chi-Yuan Lee, EE Nov./Dec. 92, p982-987.

Biomechanics

Investigation of Zebra Mussel Adhesion Strength Using a Rotating Disk, Josef Daniel Ackerman, C. Ross Ethier, D. Grant Allen and Jan K. Spelt, EE Sept./Oct. 92, p708-724.

Calcium carbonate

Softening by Fluidized Bed Crystallizers, Willard D. Harms, Jr. and R. Bruce Robinson, EE July/Aug. 92, p513-529.

Calibration

Appropriate Use of Deep-Bed Filtration Models, C. S. P. Ojha and N. J. D. Graham, EE Nov./Dec. 92, p964-980.

Chelating agents

Removing Selenium(IV) and Arsenic(V) Oxyanions with Tailored Chelating Polymers, Anuradha Ramana and Arup K. Sengupta, EE Sept./Oct. 92, p755-775.

Chemical wastes

Water, Endangered Ecosystem: Assessment of Chemical Pollution, Werner Stumm, EE July/Aug. 92, p466-476.

Chromatographic analysis

Gas-Transfer Measurements Using Headspace Analysis of Propane, John R. Thene and John S. Gulliver, EE Nov./Dec. 90, p1107-1124.

Cisterns

Model for Biological Reactors Having Suspended and Attached Growths, Chi-Yuan Lee, EE Nov./Dec. 92, p982-987.

Wave Front Behavior in Adsorption Reactors, Federico Vagliasindi and David W. Hendricks, EE July/Aug. 92, p530-550.

Clarifiers

Influences of Density on Circular Clarifiers with Baffles, Siping Zhou, J. A. McCorquodale and Z. Vitasovic, EE Nov./Dec. 92, p829-847.

Modeling and Pilot-Scale Experimental Verification for Predenitrification Process, J. Hamilton, R. Jain, P. Antoniou, S. A. Svoronos, B. Koopman and G. Lyberatos, EE Jan./Feb. 92, p38-55.

Clays

Electroosmotic Contaminant-Removal Processes, Burton A. Segall and Clifford J. Bruell, EE Jan./Feb. 92, p84-100.

Electroosomotic Removal of Gasoline Hydrocarbons and TCE From Clay, Clifford J. Bruell, Burton A. Segall and Matthew T. Walsh, EE Jan./Feb. 92, p68-83.

Coagulation
TOC Removal by Coagulation and Softening, S. R. Qasim, S. A. Hasham and N. I. Ansari, EE May/June 92, p432-437.

Compressibility
Engineering Behavior of Water Treatment Sludge, M. C. Wang, J. Q. Hull, M. Jao, B. A. Dempsey and D. A. Cornwell, EE Nov./Dec. 92, p848-864.

Computation
Accurate Method for Calculation of Saturation DO, Hesong Hua, EE Sept./Oct. 90, p988-990.

Modeling DO Conditions in Streams with Dispersion, Antonis D. Koussis, Prashant Kokitkar and Adosh Mehta, EE May/June 90, p601-614.

Computer applications
Expert System for Anaerobic-Digestion-Process Operation, Michael W. Barnett and John F. Andrews, EE Nov./Dec. 92, p949-963.

Computer models
Wave Front Behavior in Adsorption Reactors, Federico Vagliasindi and David W. Hendricks, EE July/Aug. 92, p530-550.

Concentration
Evaluation of Ozone Disinfection Systems: Characteristic Concentration *C*, O. Lev and S. Regli, EE July/Aug. 92, p477-494.

Concentration time
Sampling of Wastewater Effluent, Heinz G. Stefan, Thomas R. Johnson and Hugh L. McConnell, EE Mar./Apr. 92, p209-225.

Containment
Theory and Experiments on Subsurface Contaminant Sorption Systems, Kirk Hatfield, David Burris, Thomas B. Stauffer and Joe Ziegler, EE May/June 92, p322-337.

Containment vessels
Evaluation of Collection-Well Parameters for DNAPL, K. Schmidtke, E. McBean and F. Rovers, EE Mar./Apr. 92, p183-195.

Contaminants
Electroosmotic Contaminant-Removal Processes, Burton A. Segall and Clifford J. Bruell, EE Jan./Feb. 92, p84-100.

Electroosomotic Removal of Gasoline Hydrocarbons and TCE From Clay, Clifford J. Bruell, Burton A. Segall and Matthew T. Walsh, EE Jan./Feb. 92, p68-83.

Modeling of Soil Venting Processes to Remediate Unsaturated Soils, Suresh Lingineni and Vijay K. Dhir, EE Jan./Feb. 92, p135-152.

Predicting Effluent PCBs From Superfund Site Dredged Material, Edward L. Thackston and Michael R. Palermo, EE Sept./Oct. 92, p657-665.

Removal of 1,2 Dibromo-3-Chloropropane by Countercurrent Cascade Air Stripping, N. Nirmalakhandan, Won Jang and Richard E. Speece, EE Mar./Apr. 92, p226-237.

Theory and Experiments on Subsurface Contaminant Sorption Systems, Kirk Hatfield, David Burris, Thomas B. Stauffer and Joe Ziegler, EE May/June 92, p322-337.

Cost analysis
Optimal Scheduling of Consecutive Landfill Operations with Recycling, Timothy L. Jacobs and Jess W. Everett, EE May/June 92, p420-429.

Currents
Laboratory Study of Oil Slick Subjected to Nearshore Circulation, A. G. L. Borthwick and S. A. Joynes, EE Nov./Dec. 92, p905-922.

Decision making
Improved First-Order Uncertainty Method for Water-Quality Modeling, Charles S. Melching and Sharath Anmangandla, EE Sept./Oct. 92, p791-805.

Denitrification
Modeling and Pilot-Scale Experimental Verification for Predenitrification Process, J. Hamilton, R. Jain, P. Antoniou, S. A. Svoronos, B. Koopman and G. Lyberatos, EE Jan./Feb. 92, p38-55.

Operational Strategies for Predenitrification Process, R. Jain, G. Lyberatos, S. A. Svoronos and B. Koopman, EE Jan./Feb. 92, p56-67.

Density
Improvement of Flow in Final Settling Tanks, Ulrich Bretscher, Peter Krebs and Willi H. Hager, EE May/June 92, p307-321.

Density currents
Influences of Density on Circular Clarifiers with Baffles, Siping Zhou, J. A. McCorquodale and Z. Vitasovic, EE Nov./Dec. 92, p829-847.

Design
Design Procedures for Effluent Discharge to Estuaries During Ebb Tide, Tony Webb and Rodger B. Tomlinson, EE May/June 92, p338-362.

Pilot Waste-Stabilization Pond in Tanzania, Michael Yhdego, EE Mar./Apr. 92, p286-296.

Wave Front Behavior in Adsorption Reactors, Federico Vagliasindi and David W. Hendricks, EE July/Aug. 92, p530-550.

Design events
Storm Runoff Detention for Pollutant Removal, A. Osman Akan, EE May/June 92, p380-389.

Design improvements
Graphs for Hydraulic Design of Sanitary Sewers, Venkateswarlu Swarna and Prasad M. Modak, EE May/June 90, p561-574.

Detention basins
Storm Runoff Detention for Pollutant Removal, A. Osman Akan, EE May/June 92, p380-389.

Developing countries
Moisture and Suction in Sanitary Landfills in Semiarid Areas, G. E. Blight, J. M. Ball and J. J. Blight, EE Nov./Dec. 92, p865-877.

Dewatering
Conditioning and Dewatering of Anaerobically Digested BPR Sludge, William R. Knocke, Jeffrey W. Nash and Clifford W. Randall, EE Sept./Oct. 92, p642-656.

Diffusers
Numerical and Physical Modeling of Air Diffuser Plume, D. W. Machina, J. A. McCorquodale and J. K. Bewtra, EE Mar./Apr. 92, p253-267.

Discharge
Calculating Flow in Manifold and Orifice System, Fazal H. Chaudhry and Luisa F. R. Reis, EE July/Aug. 92, p585-596.

Disinfection
Evaluation of Ozone Disinfection Systems: Characteristic Time *T*, O. Lev and S. Regli, EE Mar./Apr. 92, p268-285.

Evaluation of Ozone Disinfection Systems: Characteristic Concentration *C*, O. Lev and S. Regli, EE July/Aug. 92, p477-494.

Dispersion
Modeling DO Conditions in Streams with Dispersion, Antonis D. Koussis, Prashant Kokitkar and Adosh Mehta, EE May/June 90, p601-614.

Dissolved oxygen
Accurate Method for Calculation of Saturation DO, Hesong Hua, EE Sept./Oct. 90, p988-990.

Aeration at Ohio River Basin Navigation Dams, Steven F. Railsback, John M. Bownds, Michael J. Sale, Martha M. Stevens and George H. Taylor, EE Mar./Apr. 90, p361-375.

Delta Method for Estimating Primary Production, Respiration, and Reaeration in Streams, Steven C. Chapra and Dominic M. Di Toro, EE Sept./Oct. 91, p640-655.

Improved First-Order Uncertainty Method for Water-Quality Modeling, Charles S. Melching and Sharath Anmangandla, EE Sept./Oct. 92, p791-805.

Modeling DO Conditions in Streams with Dispersion, Antonis D. Koussis, Prashant Kokitkar and Adosh Mehta, EE May/June 90, p601-614.

Distribution
Information Theory in Risk Analysis, James D. Englehardt and Jay R. Lund, EE Nov./Dec. 92, p890-904.

Dredges
Predicting Effluent PCBs From Superfund Site Dredged Material, Edward L. Thackston and Michael R. Palermo, EE Sept./Oct. 92, p657-665.

Dyes
Measuring Ozone by Indigo Method: Interference of Suspended Material, Mary E. Williams and Jeannie L. Darby, EE Nov./Dec. 92, p988-993.

Dynamic models
Gas Phase Control for Oxygen-Activated Sludge, R. C. Clifft, EE May/June 92, p390-401.

Ecosystems
Probabilistic Environmental Risk of Hazardous Materials, Timothy L. Jacobs and P. Aarne Vesilind, EE Nov./Dec. 92, p878-889.

Water, Endangered Ecosystem: Assessment of Chemical Pollution, Werner Stumm, EE July/Aug. 92, p466-476.

Effluents
Design Procedures for Effluent Discharge to Estuaries During Ebb Tide, Tony Webb and Rodger B. Tomlinson, EE May/June 92, p338-362.

Mechanism of Biological Treatment in Plug-Flow or Batch Systems, Hasan Ali San, EE July/Aug. 92, p614-628.

Sampling of Wastewater Effluent, Heinz G. Stefan, Thomas R. Johnson and Hugh L. McConnell, EE Mar./Apr. 92, p209-225.

Electroosmosis
Electroosmotic Contaminant-Removal Processes, Burton A. Segall and Clifford J. Bruell, EE Jan./Feb. 92, p84-100.

Electroosomotic Removal of Gasoline Hydrocarbons and TCE From Clay, Clifford J. Bruell, Burton A. Segall and Matthew T. Walsh, EE Jan./Feb. 92, p68-83.

Environmental effects
Moisture and Suction in Sanitary Landfills in Semiarid Areas, G. E. Blight, J. M. Ball and J. J. Blight, EE Nov./Dec. 92, p865-877.

Environmental impacts
Probabilistic Environmental Risk of Hazardous Materials, Timothy L. Jacobs and P. Aarne Vesilind, EE Nov./Dec. 92, p878-889.

QSAR Parameters for Toxicity of Organic Chemicals to *Nitrobacter*, N. H. Tang, D. J. W. Blum, R. E. Speece and N. Nirmalakhandan, EE Jan./Feb. 92, p17-37.

Environmental issues
Pilot Waste-Stabilization Pond in Tanzania, Michael Yhdego, EE Mar./Apr. 92, p286-296.

Environmental quality
Electroosomotic Removal of Gasoline Hydrocarbons and TCE From Clay, Clifford J. Bruell, Burton A. Segall and Matthew T. Walsh, EE Jan./Feb. 92, p68-83.

Pilot Waste-Stabilization Pond in Tanzania, Michael Yhdego, EE Mar./Apr. 92, p286-296.

Estimating
Delta Method for Estimating Primary Production, Respiration, and Reaeration in Streams, Steven C. Chapra and Dominic M. Di Toro, EE Sept./Oct. 91, p640-655.

Estuaries
Design Procedures for Effluent Discharge to Estuaries During Ebb Tide, Tony Webb and Rodger B. Tomlinson, EE May/June 92, p338-362.

Evaporation
Modeling of Soil Venting Processes to Remediate Unsaturated Soils, Suresh Lingineni and Vijay K. Dhir, EE Jan./Feb. 92, p135-152.

Expert systems
Expert System for Anaerobic-Digestion-Process Operation, Michael W. Barnett and John F. Andrews, EE Nov./Dec. 92, p949-963.

Facilities
Partitioning of Elements by Refuse Processing, Robert K. Ham, Victor A. Hammer and Gary Boley, EE Sept./Oct. 92, p725-743.

Failures
Probabilistic Environmental Risk of Hazardous Materials, Timothy L. Jacobs and P. Aarne Vesilind, EE Nov./Dec. 92, p878-889.

Filters
Appropriate Use of Deep-Bed Filtration Models, C. S. P. Ojha and N. J. D. Graham, EE Nov./Dec. 92, p964-980.
Velocity Gradient in Filter Backwashing, Mustafa Turan, EE Sept./Oct. 92, p776-790.

Filtration
Appropriate Use of Deep-Bed Filtration Models, C. S. P. Ojha and N. J. D. Graham, EE Nov./Dec. 92, p964-980.
Light-Scatter Particle Counting: Improving Filtered-Water Quality, Carrie M. Lewis and David H. Manz, EE Mar./Apr. 91, p209-223.

Finite element method
Finite Element Modeling of Single-Solute Activated-Carbon Adsorption, M. Akram Hossain and David R. Yonge, EE Mar./Apr. 92, p238-252.

Fish habitats
Integrated Assessment of Acid-Deposition Effects on Lake Acidification, Edward S. Rubin, Mitchell J. Small, Cary N. Bloyd and Max Henrion, EE Jan./Feb. 92, p120-134.

Flocculating
Type II Sedimentation: Removal Efficiency from Column-Settling Tests, Ravindra M. Srivastava, EE May/June 92, p438-441.

Flotation
Effect of Collector Dosage on Metal Removal by Precipitation/Flotation, Venbakm C. Gopalratnam, Gary F. Bennett and Robert W. Peters, EE Nov./Dec. 92, p923-948.

Flow
Improvement of Flow in Final Settling Tanks, Ulrich Bretscher, Peter Krebs and Willi H. Hager, EE May/June 92, p307-321.

Flow measurement
Velocity and Depth of Flow Calculations in Partially Filled Pipes, A. Saatçi, EE Nov./Dec. 90, p1202-1208.

Fluid mechanics
Investigation of Zebra Mussel Adhesion Strength Using a Rotating Disk, Josef Daniel Ackerman, C. Ross Ethier, D. Grant Allen and Jan K. Spelt, EE Sept./Oct. 92, p708-724.

Fluidized bed processing
Modeling of Toxic Wastewater Treatment by Expanded-Bed Anaerobic GAC Reactors, G. F. Nakhla and M. T. Suidan, EE July/Aug. 92, p495-512.
Softening by Fluidized Bed Crystallizers, Willard D. Harms, Jr. and R. Bruce Robinson, EE July/Aug. 92, p513-529.

Fluidizing
Velocity Gradient in Filter Backwashing, Mustafa Turan, EE Sept./Oct. 92, p776-790.

Forests
Sludge Loading Rates for Forest Land, D. A. Haith, J. E. Reynolds, P. T. Landre and T. L. Richard, EE Mar./Apr. 92, p196-208.

Fouling
Investigation of Zebra Mussel Adhesion Strength Using a Rotating Disk, Josef Daniel Ackerman, C. Ross Ethier, D. Grant Allen and Jan K. Spelt, EE Sept./Oct. 92, p708-724.

Fresh water
Accurate Method for Calculation of Saturation DO, Hesong Hua, EE Sept./Oct. 90, p988-990.

Froude number
Influences of Density on Circular Clarifiers with Baffles, Siping Zhou, J. A. McCorquodale and Z. Vitasovic, EE Nov./Dec. 92, p829-847.

Gas flow
Gas-Transfer Measurements Using Headspace Analysis of Propane, John R. Thene and John S. Gulliver, EE Nov./Dec. 90, p1107-1124.

Gasoline
Electroosomotic Removal of Gasoline Hydrocarbons and TCE From Clay, Clifford J. Bruell, Burton A. Segall and Matthew T. Walsh, EE Jan./Feb. 92, p68-83.

Geographic information systems
Sludge Loading Rates for Forest Land, D. A. Haith, J. E. Reynolds, P. T. Landre and T. L. Richard, EE Mar./Apr. 92, p196-208.

Giardiasis
Light-Scatter Particle Counting: Improving Filtered-Water Quality, Carrie M. Lewis and David H. Manz, EE Mar./Apr. 91, p209-223.

Graphical analysis
Mechanism of Biological Treatment in Plug-Flow or Batch Systems, Hasan Ali San, EE July/Aug. 92, p614-628.

Graphs
Graphs for Hydraulic Design of Sanitary Sewers, Venkateswarlu Swarna and Prasad M. Modak, EE May/June 90, p561-574.

Gravel
Model Study of Jet-Circulated Grit Chamber, Asher Brenner and Mordechai H. Diskin, EE Nov./Dec. 91, p782-787.

Ground water
Evaluation of Collection-Well Parameters for DNAPL, K. Schmidtke, E. McBean and F. Rovers, EE Mar./Apr. 92, p183-195.
Sludge Loading Rates for Forest Land, D. A. Haith, J. E. Reynolds, P. T. Landre and T. L. Richard, EE Mar./Apr. 92, p196-208.

Ground-water pollution
Migration of Chloroform in Aquifers, Sergio E. Serrano, EE Mar./Apr. 92, p167-182.

Theory and Experiments on Subsurface Contaminant Sorption Systems, Kirk Hatfield, David Burris, Thomas B. Stauffer and Joe Ziegler, EE May/June 92, p322-337.

Hazardous materials
Probabilistic Environmental Risk of Hazardous Materials, Timothy L. Jacobs and P. Aarne Vesilind, EE Nov./Dec. 92, p878-889.

Hazardous waste
Effect of Collector Dosage on Metal Removal by Precipitation/Flotation, Venbakm C. Gopalratnam, Gary F. Bennett and Robert W. Peters, EE Nov./Dec. 92, p923-948.

Health hazards
Water, Endangered Ecosystem: Assessment of Chemical Pollution, Werner Stumm, EE July/Aug. 92, p466-476.

Heating
Modeling of Soil Venting Processes to Remediate Unsaturated Soils, Suresh Lingineni and Vijay K. Dhir, EE Jan./Feb. 92, p135-152.

Heavy metals
Effect of Collector Dosage on Metal Removal by Precipitation/Flotation, Venbakm C. Gopalratnam, Gary F. Bennett and Robert W. Peters, EE Nov./Dec. 92, p923-948.

Metallurgical Residue for Solubilization of Metals from Sewage Sludge, D. Couillard and G. Mercier, EE Sept./Oct. 92, p808-813.

Partitioning of Elements by Refuse Processing, Robert K. Ham, Victor A. Hammer and Gary Boley, EE Sept./Oct. 92, p725-743.

Hydraulic conductivity
Evaluation of Collection-Well Parameters for DNAPL, K. Schmidtke, E. McBean and F. Rovers, EE Mar./Apr. 92, p183-195.

Hydraulic design
Graphs for Hydraulic Design of Sanitary Sewers, Venkateswarlu Swarna and Prasad M. Modak, EE May/June 90, p561-574.

Hydraulic models
Sampling of Wastewater Effluent, Heinz G. Stefan, Thomas R. Johnson and Hugh L. McConnell, EE Mar./Apr. 92, p209-225.

Hydrocarbons
Electroosomotic Removal of Gasoline Hydrocarbons and TCE From Clay, Clifford J. Bruell, Burton A. Segall and Matthew T. Walsh, EE Jan./Feb. 92, p68-83.

Hydrodynamics
Efficiency of Jet Mixing of Temperature-Stratified Water, Heinz G. Stefan and Ruochuan Gu, EE May/June 92, p363-379.

Hydrographs
Impact of Flow Variability on Error in Estimation of Tributary Mass Loads, Stephen D. Preston, Victor J. Bierman, Jr. and Stephen E. Silliman, EE May/June 92, p402-419.

Incineration
Partitioning of Elements by Refuse Processing, Robert K. Ham, Victor A. Hammer and Gary Boley, EE Sept./Oct. 92, p725-743.

Industrial wastes
Activity of Biomass in RBC System Treating Pulp Industrial Wastewater, Boshou Pan and L. Hartmann, EE Sept./Oct. 92, p744-754.

Effect of Collector Dosage on Metal Removal by Precipitation/Flotation, Venbakm C. Gopalratnam, Gary F. Bennett and Robert W. Peters, EE Nov./Dec. 92, p923-948.

pH Control in Anaerobic Treatment of Industrial Wastewater, G. K. Anderson and G. Yang, EE July/Aug. 92, p551-567.

Influents
Chemical Dosing of Small Water Utilities Using Regression Analysis, Glenn W. Ellis, Anthony G. Collins, Xi Ge and Catherine R. Ford, EE May/June 91, p308-319.

Information theory
Information Theory in Risk Analysis, James D. Englehardt and Jay R. Lund, EE Nov./Dec. 92, p890-904.

Iron
TOC Removal by Coagulation and Softening, S. R. Qasim, S. A. Hasham and N. I. Ansari, EE May/June 92, p432-437.

Kinetics
Thermodynamic Model of Nitrification Kinetics, Thongchai Yantarasri, Albert Garcia, III. and David Brune, EE July/Aug. 92, p568-584.

Knowledge-based systems
Expert System for Anaerobic-Digestion-Process Operation, Michael W. Barnett and John F. Andrews, EE Nov./Dec. 92, p949-963.

Laboratory tests
Gas-Transfer Measurements Using Headspace Analysis of Propane, John R. Thene and John S. Gulliver, EE Nov./Dec. 90, p1107-1124.

Laboratory Study of Oil Slick Subjected to Nearshore Circulation, A. G. L. Borthwick and S. A. Joynes, EE Nov./Dec. 92, p905-922.

Simulating Solute Transport Using Laboratory-Based Sorption Parameters, Thomas C. Harmon, Lewis Semprini and Paul V. Roberts, EE Sept./Oct. 92, p666-689.

Lakes
Efficiency of Jet Mixing - of Temperature-Stratified Water, Heinz G. Stefan and Ruochuan Gu, EE May/June 92, p363-379.

Integrated Assessment of Acid-Deposition Effects on Lake Acidification, Edward S. Rubin, Mitchell J. Small, Cary N. Bloyd and Max Henrion, EE Jan./Feb. 92, p120-134.

Land application
Sludge Loading Rates for Forest Land, D. A. Haith, J. E. Reynolds, P. T. Landre and T. L. Richard, EE Mar./Apr. 92, p196-208.

Landfills

Engineering Behavior of Water Treatment Sludge, M. C. Wang, J. Q. Hull, M. Jao, B. A. Dempsey and D. A. Cornwell, EE Nov./Dec. 92, p848-864.

Optimal Scheduling of Consecutive Landfill Operations with Recycling, Timothy L. Jacobs and Jess W. Everett, EE May/June 92, p420-429.

Lime

Chemical Dosing of Small Water Utilities Using Regression Analysis, Glenn W. Ellis, Anthony G. Collins, Xi Ge and Catherine R. Ford, EE May/June 91, p308-319.

TOC Removal by Coagulation and Softening, S. R. Qasim, S. A. Hasham and N. I. Ansari, EE May/June 92, p432-437.

Liquids

Evaluation of Collection-Well Parameters for DNAPL, K. Schmidtke, E. McBean and F. Rovers, EE Mar./Apr. 92, p183-195.

Theory and Experiments on Subsurface Contaminant Sorption Systems, Kirk Hatfield, David Burris, Thomas B. Stauffer and Joe Ziegler, EE May/June 92, p322-337.

Loading

Impact of Flow Variability on Error in Estimation of Tributary Mass Loads, Stephen D. Preston, Victor J. Bierman, Jr. and Stephen E. Silliman, EE May/June 92, p402-419.

Management

Comparison of Optimization Formulations for Waste-Load Allocations, Donald H. Burn and Barbara J. Lence, EE July/Aug. 92, p597-612.

Manifolds

Calculating Flow in Manifold and Orifice System, Fazal H. Chaudhry and Luisa F. R. Reis, EE July/Aug. 92, p585-596.

Marine animals

Investigation of Zebra Mussel Adhesion Strength Using a Rotating Disk, Josef Daniel Ackerman, C. Ross Ethier, D. Grant Allen and Jan K. Spelt, EE Sept./Oct. 92, p708-724.

Mathematical models

Migration of Chloroform in Aquifers, Sergio E. Serrano, EE Mar./Apr. 92, p167-182.

Modeling of Soil Venting Processes to Remediate Unsaturated Soils, Suresh Lingineni and Vijay K. Dhir, EE Jan./Feb. 92, p135-152.

Operational Strategies for Predenitrification Process, R. Jain, G. Lyberatos, S. A. Svoronos and B. Koopman, EE Jan./Feb. 92, p56-67.

Optimal Scheduling of Consecutive Landfill Operations with Recycling, Timothy L. Jacobs and Jess W. Everett, EE May/June 92, p420-429.

pH Control in Anaerobic Treatment of Industrial Wastewater, G. K. Anderson and G. Yang, EE July/Aug. 92, p551-567.

Sludge Loading Rates for Forest Land, D. A. Haith, J. E. Reynolds, P. T. Landre and T. L. Richard, EE Mar./Apr. 92, p196-208.

Velocity Gradient in Filter Backwashing, Mustafa Turan, EE Sept./Oct. 92, p776-790.

Measurement

Measuring Ozone by Indigo Method: Interference of Suspended Material, Mary E. Williams and Jeannie L. Darby, EE Nov./Dec. 92, p988-993.

Metals

Bioleaching of Metals from Sewage Sludge by Sulfur-Oxidizing Bacteria, J. F. Blais, R. D. Tyagi and J. C. Auclair, EE Sept./Oct. 92, p690-707.

Meteorology

Integrated Assessment of Acid-Deposition Effects on Lake Acidification, Edward S. Rubin, Mitchell J. Small, Cary N. Bloyd and Max Henrion, EE Jan./Feb. 92, p120-134.

Microbes

Effect of Nitrogen on Yield Using Bioenergetics Theory, R. L. Droste, EE Sept./Oct. 92, p814-820.

Microbial activity

Bioleaching of Metals from Sewage Sludge by Sulfur-Oxidizing Bacteria, J. F. Blais, R. D. Tyagi and J. C. Auclair, EE Sept./Oct. 92, p690-707.

Mixing

Efficiency of Jet Mixing of Temperature-Stratified Water, Heinz G. Stefan and Ruochuan Gu, EE May/June 92, p363-379.

Model verification

Statistical Evaluation of Mechanistic Water-Quality Models, Kenneth H. Reckhow, J. Trevor Clements and Randall C. Dodd, EE Mar./Apr. 90, p250-268.

Modeling

Finite Element Modeling of Single-Solute Activated-Carbon Adsorption, M. Akram Hossain and David R. Yonge, EE Mar./Apr. 92, p238-252.

Improved First-Order Uncertainty Method for Water-Quality Modeling, Charles S. Melching and Sharath Anmangandla, EE Sept./Oct. 92, p791-805.

Mechanism of Biological Treatment in Plug-Flow or Batch Systems, Hasan Ali San, EE July/Aug. 92, p614-628.

Model Study of Jet-Circulated Grit Chamber, Asher Brenner and Mordechai H. Diskin, EE Nov./Dec. 91, p782-787.

Modeling and Pilot-Scale Experimental Verification for Predenitrification Process, J. Hamilton, R. Jain, P. Antoniou, S. A. Svoronos, B. Koopman and G. Lyberatos, EE Jan./Feb. 92, p38-55.

Modeling of Toxic Wastewater Treatment by Expanded-Bed Anaerobic GAC Reactors, G. F. Nakhla and M. T. Suidan, EE July/Aug. 92, p495-512.

Numerical and Physical Modeling of Air Diffuser Plume, D. W. Machina, J. A. McCorquodale and J. K. Bewtra, EE Mar./Apr. 92, p253-267.

Removal of 1,2 Dibromo-3-Chloropropane by Countercurrent Cascade Air Stripping, N. Nirmalakhandan, Won Jang and Richard E. Speece, EE Mar./Apr. 92, p226-237.

Thermodynamic Model of Nitrification Kinetics, Thongchai Yantarasri, Albert Garcia, III. and David Brune, EE July/Aug. 92, p568-584.

Models

Aeration at Ohio River Basin Navigation Dams, Steven F. Railsback, John M. Bownds, Michael J. Sale, Martha M. Stevens and George H. Taylor, EE Mar./Apr. 90, p361-375.

Appropriate Use of Deep-Bed Filtration Models, C. S. P. Ojha and N. J. D. Graham, EE Nov./Dec. 92, p964-980.

Delta Method for Estimating Primary Production, Respiration, and Reaeration in Streams, Steven C. Chapra and Dominic M. Di Toro, EE Sept./Oct. 91, p640-655.

Model for Biological Reactors Having Suspended and Attached Growths, Chi-Yuan Lee, EE Nov./Dec. 92, p982-987.

Modeling DO Conditions in Streams with Dispersion, Antonis D. Koussis, Prashant Kokitkar and Adosh Mehta, EE May/June 90, p601-614.

Statistical Evaluation of Mechanistic Water-Quality Models, Kenneth H. Reckhow, J. Trevor Clements and Randall C. Dodd, EE Mar./Apr. 90, p250-268.

Moisture density relations

Engineering Behavior of Water Treatment Sludge, M. C. Wang, J. Q. Hull, M. Jao, B. A. Dempsey and D. A. Cornwell, EE Nov./Dec. 92, p848-864.

Monitoring

Optimal Locations of Monitoring Stations in Water Distribution System, Byoung Ho Lee and Rolf A. Deininger, EE Jan./Feb. 92, p4-16.

Municipal wastes

Partitioning of Elements by Refuse Processing, Robert K. Ham, Victor A. Hammer and Gary Boley, EE Sept./Oct. 92, p725-743.

Navigation dams

Aeration at Ohio River Basin Navigation Dams, Steven F. Railsback, John M. Bownds, Michael J. Sale, Martha M. Stevens and George H. Taylor, EE Mar./Apr. 90, p361-375.

Nearshore circulation

Laboratory Study of Oil Slick Subjected to Nearshore Circulation, A. G. L. Borthwick and S. A. Joynes, EE Nov./Dec. 92, p905-922.

Nitrification

QSAR Parameters for Toxicity of Organic Chemicals to *Nitrobacter*, N. H. Tang, D. J. W. Blum, R. E. Speece and N. Nirmalakhandan, EE Jan./Feb. 92, p17-37.

Thermodynamic Model of Nitrification Kinetics, Thongchai Yantarasri, Albert Garcia, III. and David Brune, EE July/Aug. 92, p568-584.

Nitrites

Thermodynamic Model of Nitrification Kinetics, Thongchai Yantarasri, Albert Garcia, III. and David Brune, EE July/Aug. 92, p568-584.

Nitrogen

Effect of Nitrogen on Yield Using Bioenergetics Theory, R. L. Droste, EE Sept./Oct. 92, p814-820.

Sludge Loading Rates for Forest Land, D. A. Haith, J. E. Reynolds, P. T. Landre and T. L. Richard, EE Mar./Apr. 92, p196-208.

Nitrogen removal

Modeling and Pilot-Scale Experimental Verification for Predenitrification Process, J. Hamilton, R. Jain, P. Antoniou, S. A. Svoronos, B. Koopman and G. Lyberatos, EE Jan./Feb. 92, p38-55.

Operational Strategies for Predenitrification Process, R. Jain, G. Lyberatos, S. A. Svoronos and B. Koopman, EE Jan./Feb. 92, p56-67.

Numerical models

Influences of Density on Circular Clarifiers with Baffles, Siping Zhou, J. A. McCorquodale and Z. Vitasovic, EE Nov./Dec. 92, p829-847.

Numerical and Physical Modeling of Air Diffuser Plume, D. W. Machina, J. A. McCorquodale and J. K. Bewtra, EE Mar./Apr. 92, p253-267.

Ocean disposal

Transport of Low-Level Radioactive Soil at Deep-Ocean Disposal Site, James S. Bonner, Carlton D. Hunt, John F. Paul and Victor J. Bierman, Jr., EE Jan./Feb. 92, p101-119.

Ohio River

Aeration at Ohio River Basin Navigation Dams, Steven F. Railsback, John M. Bownds, Michael J. Sale, Martha M. Stevens and George H. Taylor, EE Mar./Apr. 90, p361-375.

Oil spills

Laboratory Study of Oil Slick Subjected to Nearshore Circulation, A. G. L. Borthwick and S. A. Joynes, EE Nov./Dec. 92, p905-922.

Operation

Expert System for Anaerobic-Digestion-Process Operation, Michael W. Barnett and John F. Andrews, EE Nov./Dec. 92, p949-963.

Operational Strategies for Predenitrification Process, R. Jain, G. Lyberatos, S. A. Svoronos and B. Koopman, EE Jan./Feb. 92, p56-67.

Optimal design

Velocity and Depth of Flow Calculations in Partially Filled Pipes, A. Saatçi, EE Nov./Dec. 90, p1202-1208.

Optimization

Comparison of Optimization Formulations for Waste-Load Allocations, Donald H. Burn and Barbara J. Lence, EE July/Aug. 92, p597-612.

Operational Strategies for Predenitrification Process, R. Jain, G. Lyberatos, S. A. Svoronos and B. Koopman, EE Jan./Feb. 92, p56-67.

Optimal Locations of Monitoring Stations in Water Distribution System, Byoung Ho Lee and Rolf A. Deininger, EE Jan./Feb. 92, p4-16.

Optimal Scheduling of Consecutive Landfill Operations with Recycling, Timothy L. Jacobs and Jess W. Everett, EE May/June 92, p420-429.

Organic carbon
TOC Removal by Coagulation and Softening, S. R. Qasim, S. A. Hasham and N. I. Ansari, EE May/June 92, p432-437.

Organic chemicals
Theory and Experiments on Subsurface Contaminant Sorption Systems, Kirk Hatfield, David Burris, Thomas B. Stauffer and Joe Ziegler, EE May/June 92, p322-337.

Outfall sewers
Design Procedures for Effluent Discharge to Estuaries During Ebb Tide, Tony Webb and Rodger B. Tomlinson, EE May/June 92, p338-362.

Oxygen transfer
Gas Phase Control for Oxygen-Activated Sludge, R. C. Clifft, EE May/June 92, p390-401.

Oxygenation
Delta Method for Estimating Primary Production, Respiration, and Reaeration in Streams, Steven C. Chapra and Dominic M. Di Toro, EE Sept./Oct. 91, p640-655.

Ozone
Evaluation of Ozone Disinfection Systems: Characteristic Time *T*, O. Lev and S. Regli, EE Mar./Apr. 92, p268-285.

Evaluation of Ozone Disinfection Systems: Characteristic Concentration *C*, O. Lev and S. Regli, EE July/Aug. 92, p477-494.

Measuring Ozone by Indigo Method: Interference of Suspended Material, Mary E. Williams and Jeannie L. Darby, EE Nov./Dec. 92, p988-993.

Parameters
Simulating Solute Transport Using Laboratory-Based Sorption Parameters, Thomas C. Harmon, Lewis Semprini and Paul V. Roberts, EE Sept./Oct. 92, p666-689.

Particle size
Information Theory in Risk Analysis, James D. Englehardt and Jay R. Lund, EE Nov./Dec. 92, p890-904.

Particles
Light-Scatter Particle Counting: Improving Filtered-Water Quality, Carrie M. Lewis and David H. Manz, EE Mar./Apr. 91, p209-223.

Transport of Low-Level Radioactive Soil at Deep-Ocean Disposal Site, James S. Bonner, Carlton D. Hunt, John F. Paul and Victor J. Bierman, Jr., EE Jan./Feb. 92, p101-119.

PCB
Predicting Effluent PCBs From Superfund Site Dredged Material, Edward L. Thackston and Michael R. Palermo, EE Sept./Oct. 92, p657-665.

Permeability
Evaluation of Collection-Well Parameters for DNAPL, K. Schmidtke, E. McBean and F. Rovers, EE Mar./Apr. 92, p183-195.

Theory and Experiments on Subsurface Contaminant Sorption Systems, Kirk Hatfield, David Burris, Thomas B. Stauffer and Joe Ziegler, EE May/June 92, p322-337.

pH
Integrated Assessment of Acid-Deposition Effects on Lake Acidification, Edward S. Rubin, Mitchell J. Small, Cary N. Bloyd and Max Henrion, EE Jan./Feb. 92, p120-134.

Metallurgical Residue for Solubilization of Metals from Sewage Sludge, D. Couillard and G. Mercier, EE Sept./Oct. 92, p808-813.

pH Control in Anaerobic Treatment of Industrial Wastewater, G. K. Anderson and G. Yang, EE July/Aug. 92, p551-567.

Phosphorus
Impact of Flow Variability on Error in Estimation of Tributary Mass Loads, Stephen D. Preston, Victor J. Bierman, Jr. and Stephen E. Silliman, EE May/June 92, p402-419.

Phosphorus removal
Conditioning and Dewatering of Anaerobically Digested BPR Sludge, William R. Knocke, Jeffrey W. Nash and Clifford W. Randall, EE Sept./Oct. 92, p642-656.

Photosynthesis
Delta Method for Estimating Primary Production, Respiration, and Reaeration in Streams, Steven C. Chapra and Dominic M. Di Toro, EE Sept./Oct. 91, p640-655.

Pipe flow
Velocity and Depth of Flow Calculations in Partially Filled Pipes, A. Saatçi, EE Nov./Dec. 90, p1202-1208.

Pipelines
Calculating Flow in Manifold and Orifice System, Fazal H. Chaudhry and Luisa F. R. Reis, EE July/Aug. 92, p585-596.

Plasticity
Engineering Behavior of Water Treatment Sludge, M. C. Wang, J. Q. Hull, M. Jao, B. A. Dempsey and D. A. Cornwell, EE Nov./Dec. 92, p848-864.

Pollutants
Storm Runoff Detention for Pollutant Removal, A. Osman Akan, EE May/June 92, p380-389.

Pollution
Water, Endangered Ecosystem: Assessment of Chemical Pollution, Werner Stumm, EE July/Aug. 92, p466-476.

Pollution abatement
Modeling of Soil Venting Processes to Remediate Unsaturated Soils, Suresh Lingineni and Vijay K. Dhir, EE Jan./Feb. 92, p135-152.

Polymers
Removing Selenium(IV) and Arsenic(V) Oxyanions with Tailored Chelating Polymers, Anuradha Ramana and Arup K. Sengupta, EE Sept./Oct. 92, p755-775.

Potable water
Evaluation of Ozone Disinfection Systems: Characteristic Concentration *C*, O. Lev and S. Regli, EE July/Aug. 92, p477-494.

Precipitation
Effect of Collector Dosage on Metal Removal by Precipitation/Flotation, Venbakm C. Gopalratnam, Gary F. Bennett and Robert W. Peters, EE Nov./Dec. 92, p923-948.

Predictions
Predicting Effluent PCBs From Superfund Site Dredged Material, Edward L. Thackston and Michael R. Palermo, EE Sept./Oct. 92, p657-665.

Probability
Improved First-Order Uncertainty Method for Water-Quality Modeling, Charles S. Melching and Sharath Anmangandla, EE Sept./Oct. 92, p791-805.

Information Theory in Risk Analysis, James D. Englehardt and Jay R. Lund, EE Nov./Dec. 92, p890-904.

Probabilistic Environmental Risk of Hazardous Materials, Timothy L. Jacobs and P. Aarne Vesilind, EE Nov./Dec. 92, p878-889.

Process control
Gas Phase Control for Oxygen-Activated Sludge, R. C. Clifft, EE May/June 92, p390-401.

Programming
Optimal Locations of Monitoring Stations in Water Distribution System, Byoung Ho Lee and Rolf A. Deininger, EE Jan./Feb. 92, p4-16.

Radioisotopes
Transport of Low-Level Radioactive Soil at Deep-Ocean Disposal Site, James S. Bonner, Carlton D. Hunt, John F. Paul and Victor J. Bierman, Jr., EE Jan./Feb. 92, p101-119.

Reaeration
Delta Method for Estimating Primary Production, Respiration, and Reaeration in Streams, Steven C. Chapra and Dominic M. Di Toro, EE Sept./Oct. 91, p640-655.

Gas-Transfer Measurements Using Headspace Analysis of Propane, John R. Thene and John S. Gulliver, EE Nov./Dec. 90, p1107-1124.

Recycling
Optimal Scheduling of Consecutive Landfill Operations with Recycling, Timothy L. Jacobs and Jess W. Everett, EE May/June 92, p420-429.

Refuse derived fuel
Partitioning of Elements by Refuse Processing, Robert K. Ham, Victor A. Hammer and Gary Boley, EE Sept./Oct. 92, p725-743.

Refuse disposal
Partitioning of Elements by Refuse Processing, Robert K. Ham, Victor A. Hammer and Gary Boley, EE Sept./Oct. 92, p725-743.

Regression analysis
Chemical Dosing of Small Water Utilities Using Regression Analysis, Glenn W. Ellis, Anthony G. Collins, Xi Ge and Catherine R. Ford, EE May/June 91, p308-319.

Reservoirs
Efficiency of Jet Mixing of Temperature-Stratified Water, Heinz G. Stefan and Ruochuan Gu, EE May/June 92, p363-379.

Retention time
Mechanism of Biological Treatment in Plug-Flow or Batch Systems, Hasan Ali San, EE July/Aug. 92, p614-628.

Model for Biological Reactors Having Suspended and Attached Growths, Chi-Yuan Lee, EE Nov./Dec. 92, p982-987.

Risk analysis
Information Theory in Risk Analysis, James D. Englehardt and Jay R. Lund, EE Nov./Dec. 92, p890-904.

Probabilistic Environmental Risk of Hazardous Materials, Timothy L. Jacobs and P. Aarne Vesilind, EE Nov./Dec. 92, p878-889.

Rotating biological contactor
Activity of Biomass in RBC System Treating Pulp Industrial Wastewater, Boshou Pan and L. Hartmann, EE Sept./Oct. 92, p744-754.

Sampling
Sampling of Wastewater Effluent, Heinz G. Stefan, Thomas R. Johnson and Hugh L. McConnell, EE Mar./Apr. 92, p209-225.

Sanitary landfills
Moisture and Suction in Sanitary Landfills in Semiarid Areas, G. E. Blight, J. M. Ball and J. J. Blight, EE Nov./Dec. 92, p865-877.

Sanitary sewers
Graphs for Hydraulic Design of Sanitary Sewers, Venkateswarlu Swarna and Prasad M. Modak, EE May/June 90, p561-574.

Saturation
Accurate Method for Calculation of Saturation DO, Hesong Hua, EE Sept./Oct. 90, p988-990.

Scale effect
Laboratory Study of Oil Slick Subjected to Nearshore Circulation, A. G. L. Borthwick and S. A. Joynes, EE Nov./Dec. 92, p905-922.

Scale models
Model Study of Jet-Circulated Grit Chamber, Asher Brenner and Mordechai H. Diskin, EE Nov./Dec. 91, p782-787.

Modeling and Pilot-Scale Experimental Verification for Predenitrification Process, J. Hamilton, R. Jain, P. Antoniou, S. A. Svoronos, B. Koopman and G. Lyberatos, EE Jan./Feb. 92, p38-55.

Scheduling
Optimal Scheduling of Consecutive Landfill Operations with Recycling, Timothy L. Jacobs and Jess W. Everett, EE May/June 92, p420-429.

Sea water
Accurate Method for Calculation of Saturation DO, Hesong Hua, EE Sept./Oct. 90, p988-990.

Sediment

Predicting Effluent PCBs From Superfund Site Dredged Material, Edward L. Thackston and Michael R. Palermo, EE Sept./Oct. 92, p657-665.

Sedimentation

Improvement of Flow in Final Settling Tanks, Ulrich Bretscher, Peter Krebs and Willi H. Hager, EE May/June 92, p307-321.

Type II Sedimentation: Removal Efficiency from Column-Settling Tests, Ravindra M. Srivastava, EE May/June 92, p438-441.

Sedimentation tanks

Improvement of Flow in Final Settling Tanks, Ulrich Bretscher, Peter Krebs and Willi H. Hager, EE May/June 92, p307-321.

Influences of Density on Circular Clarifiers with Baffles, Siping Zhou, J. A. McCorquodale and Z. Vitasovic, EE Nov./Dec. 92, p829-847.

Seepage

Moisture and Suction in Sanitary Landfills in Semiarid Areas, G. E. Blight, J. M. Ball and J. J. Blight, EE Nov./Dec. 92, p865-877.

Selection

Appropriate Use of Deep-Bed Filtration Models, C. S. P. Ojha and N. J. D. Graham, EE Nov./Dec. 92, p964-980.

Selenium

Removing Selenium(IV) and Arsenic(V) Oxyanions with Tailored Chelating Polymers, Anuradha Ramana and Arup K. Sengupta, EE Sept./Oct. 92, p755-775.

Settlement analysis

Transport of Low-Level Radioactive Soil at Deep-Ocean Disposal Site, James S. Bonner, Carlton D. Hunt, John F. Paul and Victor J. Bierman, Jr., EE Jan./Feb. 92, p101-119.

Type II Sedimentation: Removal Efficiency from Column-Settling Tests, Ravindra M. Srivastava, EE May/June 92, p438-441.

Sewage

Improvement of Flow in Final Settling Tanks, Ulrich Bretscher, Peter Krebs and Willi H. Hager, EE May/June 92, p307-321.

Sewage sludge

Bioleaching of Metals from Sewage Sludge by Sulfur-Oxidizing Bacteria, J. F. Blais, R. D. Tyagi and J. C. Auclair, EE Sept./Oct. 92, p690-707.

Sewer design

Velocity and Depth of Flow Calculations in Partially Filled Pipes, A. Saatçi, EE Nov./Dec. 90, p1202-1208.

Sewers

Velocity and Depth of Flow Calculations in Partially Filled Pipes, A. Saatçi, EE Nov./Dec. 90, p1202-1208.

Shear strength

Engineering Behavior of Water Treatment Sludge, M. C. Wang, J. Q. Hull, M. Jao, B. A. Dempsey and D. A. Cornwell, EE Nov./Dec. 92, p848-864.

Shear stress

Investigation of Zebra Mussel Adhesion Strength Using a Rotating Disk, Josef Daniel Ackerman, C. Ross Ethier, D. Grant Allen and Jan K. Spelt, EE Sept./Oct. 92, p708-724.

Simulation

Simulating Solute Transport Using Laboratory-Based Sorption Parameters, Thomas C. Harmon, Lewis Semprini and Paul V. Roberts, EE Sept./Oct. 92, p666-689.

Slope stability

Engineering Behavior of Water Treatment Sludge, M. C. Wang, J. Q. Hull, M. Jao, B. A. Dempsey and D. A. Cornwell, EE Nov./Dec. 92, p848-864.

Sludge

Conditioning and Dewatering of Anaerobically Digested BPR Sludge, William R. Knocke, Jeffrey W. Nash and Clifford W. Randall, EE Sept./Oct. 92, p642-656.

Engineering Behavior of Water Treatment Sludge, M. C. Wang, J. Q. Hull, M. Jao, B. A. Dempsey and D. A. Cornwell, EE Nov./Dec. 92, p848-864.

Softening by Fluidized Bed Crystallizers, Willard D. Harms, Jr. and R. Bruce Robinson, EE July/Aug. 92, p513-529.

Sludge disposal

Sludge Loading Rates for Forest Land, D. A. Haith, J. E. Reynolds, P. T. Landre and T. L. Richard, EE Mar./Apr. 92, p196-208.

Sludge treatment

Bioleaching of Metals from Sewage Sludge by Sulfur-Oxidizing Bacteria, J. F. Blais, R. D. Tyagi and J. C. Auclair, EE Sept./Oct. 92, p690-707.

Conditioning and Dewatering of Anaerobically Digested BPR Sludge, William R. Knocke, Jeffrey W. Nash and Clifford W. Randall, EE Sept./Oct. 92, p642-656.

Metallurgical Residue for Solubilization of Metals from Sewage Sludge, D. Couillard and G. Mercier, EE Sept./Oct. 92, p808-813.

Softening

Softening by Fluidized Bed Crystallizers, Willard D. Harms, Jr. and R. Bruce Robinson, EE July/Aug. 92, p513-529.

TOC Removal by Coagulation and Softening, S. R. Qasim, S. A. Hasham and N. I. Ansari, EE May/June 92, p432-437.

Soil pollution

Electroosmotic Contaminant-Removal Processes, Burton A. Segall and Clifford J. Bruell, EE Jan./Feb. 92, p84-100.

Soils

Transport of Low-Level Radioactive Soil at Deep-Ocean Disposal Site, James S. Bonner, Carlton D. Hunt, John F. Paul and Victor J. Bierman, Jr., EE Jan./Feb. 92, p101-119.

Soils, saturated

Electroosmotic Contaminant-Removal Processes, Burton A. Segall and Clifford J. Bruell, EE Jan./Feb. 92, p84-100.

Electroosomotic Removal of Gasoline Hydrocarbons and TCE From Clay, Clifford J. Bruell, Burton A. Segall and Matthew T. Walsh, EE Jan./Feb. 92, p68-83.

Soils, unsaturated

Modeling of Soil Venting Processes to Remediate Unsaturated Soils, Suresh Lingineni and Vijay K. Dhir, EE Jan./Feb. 92, p135-152.

Solids

Simulating Solute Transport Using Laboratory-Based Sorption Parameters, Thomas C. Harmon, Lewis Semprini and Paul V. Roberts, EE Sept./Oct. 92, p666-689.

Solubility

Metallurgical Residue for Solubilization of Metals from Sewage Sludge, D. Couillard and G. Mercier, EE Sept./Oct. 92, p808-813.

Solutes

Simulating Solute Transport Using Laboratory-Based Sorption Parameters, Thomas C. Harmon, Lewis Semprini and Paul V. Roberts, EE Sept./Oct. 92, p666-689.

Sorption

Removing Selenium(IV) and Arsenic(V) Oxyanions with Tailored Chelating Polymers, Anuradha Ramana and Arup K. Sengupta, EE Sept./Oct. 92, p755-775.

Simulating Solute Transport Using Laboratory-Based Sorption Parameters, Thomas C. Harmon, Lewis Semprini and Paul V. Roberts, EE Sept./Oct. 92, p666-689.

Theory and Experiments on Subsurface Contaminant Sorption Systems, Kirk Hatfield, David Burris, Thomas B. Stauffer and Joe Ziegler, EE May/June 92, p322-337.

Statistical analysis

Information Theory in Risk Analysis, James D. Englehardt and Jay R. Lund, EE Nov./Dec. 92, p890-904.

QSAR Parameters for Toxicity of Organic Chemical... *Nitrobacter*, N. H. Tang, D. J. W. Blum, R. ...eece and N. Nirmalakhandan, EE Jan./Fe... 92, p17-37.

Statistical Evaluation of Mechanistic Water-Quality Models, Kenneth H. Reckhow, J. Trevor Clements and Randall C. Dodd, EE Mar./Apr. 90, p250-268.

Statistical models

Aeration at Ohio River Basin Navigation Dams, Steven F. Railsback, John M. Bownds, Michael J. Sale, Martha M. Stevens and George H. Taylor, EE Mar./Apr. 90, p361-375.

Statistics

Impact of Flow Variability on Error in Estimation of Tributary Mass Loads, Stephen D. Preston, Victor J. Bierman, Jr. and Stephen E. Silliman, EE May/June 92, p402-419.

Stoichiometry

Effect of Nitrogen on Yield Using Bioenergetics Theory, R. L. Droste, EE Sept./Oct. 92, p814-820.

Storm runoff

Storm Runoff Detention for Pollutant Removal, A. Osman Akan, EE May/June 92, p380-389.

Stormwater management

Storm Runoff Detention for Pollutant Removal, A. Osman Akan, EE May/June 92, p380-389.

Streams

Delta Method for Estimating Primary Production, Respiration, and Reaeration in Streams, Steven C. Chapra and Dominic M. Di Toro, EE Sept./Oct. 91, p640-655.

Modeling DO Conditions in Streams with Dispersion, Antonis D. Koussis, Prashant Kokitkar and Adosh Mehta, EE May/June 90, p601-614.

Sulfur dioxide

Integrated Assessment of Acid-Deposition Effects on Lake Acidification, Edward S. Rubin, Mitchell J. Small, Cary N. Bloyd and Max Henrion, EE Jan./Feb. 92, p120-134.

Sulfur oxides

Bioleaching of Metals from Sewage Sludge by Sulfur-Oxidizing Bacteria, J. F. Blais, R. D. Tyagi and J. C. Auclair, EE Sept./Oct. 92, p690-707.

Surface waters

Evaluation of Ozone Disinfection Systems: Characteristic Time *T*, O. Lev and S. Regli, EE Mar./Apr. 92, p268-285.

Suspended solids

Measuring Ozone by Indigo Method: Interference of Suspended Material, Mary E. Williams and Jeannie L. Darby, EE Nov./Dec. 92, p988-993.

Model for Biological Reactors Having Suspended and Attached Growths, Chi-Yuan Lee, EE Nov./Dec. 92, p982-987.

Tanzania

Pilot Waste-Stabilization Pond in Tanzania, Michael Yhdego, EE Mar./Apr. 92, p286-296.

Technology

Evaluation of BAT for VOCs in Drinking Water, Robert M. Clark and Jeffrey Q. Adams, EE Mar./Apr. 91, p247-268.

Temperature

BOD Test for Tropical Countries, Nilay Choudhari, Paritosh C. Tyagi, N. Niyogi, V. P. Thergaonkar and P. Khanna, EE Mar./Apr. 92, p298-303.

Testing

BOD Test for Tropical Countries, Nilay Choudhari, Paritosh C. Tyagi, N. Niyogi, V. P. Thergaonkar and P. Khanna, EE Mar./Apr. 92, p298-303.

Investigation of Zebra Mussel Adhesion Strength Using a Rotating Disk, Josef Daniel Ackerman, C. Ross Ethier, D. Grant Allen and Jan K. Spelt, EE Sept./Oct. 92, p708-724.

Partitioning of Elements by Refuse Processing, Robert K. Ham, Victor A. Hammer and Gary Boley, EE Sept./Oct. 92, p725-743.

Predicting Effluent PCBs From Superfund Site Dredged Material, Edward L. Thackston and Michael R. Palermo, EE Sept./Oct. 92, p657-665.

QSAR Parameters for Toxicity of Organic Chemicals to *Nitrobacter*, N. H. Tang, D. J. W. Blum, R. E. Speece and N. Nirmalakhandan, EE Jan./Feb. 92, p17-37.

Thermal stratification

Efficiency of Jet Mixing of Temperature-Stratified Water, Heinz G. Stefan and Ruochuan Gu, EE May/June 92, p363-379.

Thermodynamics

Effect of Nitrogen on Yield Using Bioenergetics Theory, R. L. Droste, EE Sept./Oct. 92, p814-820.

Thermodynamic Model of Nitrification Kinetics, Thongchai Yantarasri, Albert Garcia, III. and David Brune, EE July/Aug. 92, p568-584.

Tides

Design Procedures for Effluent Discharge to Estuaries During Ebb Tide, Tony Webb and Rodger B. Tomlinson, EE May/June 92, p338-362.

Toxic wastes

Modeling of Toxic Wastewater Treatment by Expanded-Bed Anaerobic GAC Reactors, G. F. Nakhla and M. T. Suidan, EE July/Aug. 92, p495-512.

QSAR Parameters for Toxicity of Organic Chemicals to *Nitrobacter*, N. H. Tang, D. J. W. Blum, R. E. Speece and N. Nirmalakhandan, EE Jan./Feb. 92, p17-37.

Tracers

Gas-Transfer Measurements Using Headspace Analysis of Propane, John R. Thene and John S. Gulliver, EE Nov./Dec. 90, p1107-1124.

Transport phenomena

Migration of Chloroform in Aquifers, Sergio E. Serrano, EE Mar./Apr. 92, p167-182.

Simulating Solute Transport Using Laboratory-Based Sorption Parameters, Thomas C. Harmon, Lewis Semprini and Paul V. Roberts, EE Sept./Oct. 92, p666-689.

Transport of Low-Level Radioactive Soil at Deep-Ocean Disposal Site, James S. Bonner, Carlton D. Hunt, John F. Paul and Victor J. Bierman, Jr., EE Jan./Feb. 92, p101-119.

Tributaries

Impact of Flow Variability on Error in Estimation of Tributary Mass Loads, Stephen D. Preston, Victor J. Bierman, Jr. and Stephen E. Silliman, EE May/June 92, p402-419.

Tropical regions

BOD Test for Tropical Countries, Nilay Choudhari, Paritosh C. Tyagi, N. Niyogi, V. P. Thergaonkar and P. Khanna, EE Mar./Apr. 92, p298-303.

Turbidity

Chemical Dosing of Small Water Utilities Using Regression Analysis, Glenn W. Ellis, Anthony G. Collins, Xi Ge and Catherine R. Ford, EE May/June 91, p308-319.

Turbulence

Influences of Density on Circular Clarifiers with Baffles, Siping Zhou, J. A. McCorquodale and Z. Vitasovic, EE Nov./Dec. 92, p829-847.

Two phase flow

Numerical and Physical Modeling of Air Diffuser Plume, D. W. Machina, J. A. McCorquodale and J. K. Bewtra, EE Mar./Apr. 92, p253-267.

Uncertainty analysis

Improved First-Order Uncertainty Method for Water-Quality Modeling, Charles S. Melching and Sharath Anmangandla, EE Sept./Oct. 92, p791-805.

Integrated Assessment of Acid-Deposition Effects on Lake Acidification, Edward S. Rubin, Mitchell J. Small, Cary N. Bloyd and Max Henrion, EE Jan./Feb. 92, p120-134.

Uncertainty principles

Comparison of Optimization Formulations for Waste-Load Allocations, Donald H. Burn and Barbara J. Lence, EE July/Aug. 92, p597-612.

Uniformity

Calculating Flow in Manifold and Orifice System, Fazal H. Chaudhry and Luisa F. R. Reis, EE July/Aug. 92, p585-596.

Velocity gradient

Velocity Gradient in Filter Backwashing, Mustafa Turan, EE Sept./Oct. 92, p776-790.

Viruses

Evaluation of Ozone Disinfection Systems: Characteristic Concentration *C*, O. Lev and S. Regli, EE July/Aug. 92, p477-494.

Volatile organic chemicals

Evaluation of BAT for VOCs in Drinking Water, Robert M. Clark and Jeffrey Q. Adams, EE Mar./Apr. 91, p247-268.

Migration of Chloroform in Aquifers, Sergio E. Serrano, EE Mar./Apr. 92, p167-182.

Modeling of Soil Venting Processes to Remediate Unsaturated Soils, Suresh Lingineni and Vijay K. Dhir, EE Jan./Feb. 92, p135-152.

Removal of 1,2 Dibromo-3-Chloropropane by Countercurrent Cascade Air Stripping, N. Nirmalakhandan, Won Jang and Richard E. Speece, EE Mar./Apr. 92, p226-237.

Waste disposal

Moisture and Suction in Sanitary Landfills in Semiarid Areas, G. E. Blight, J. M. Ball and J. J. Blight, EE Nov./Dec. 92, p865-877.

QSAR Parameters for Toxicity of Organic Chemicals to *Nitrobacter*, N. H. Tang, D. J. W. Blum, R. E. Speece and N. Nirmalakhandan, EE Jan./Feb. 92, p17-37.

Waste site cleanup

Electroosomotic Removal of Gasoline Hydrocarbons and TCE From Clay, Clifford J. Bruell, Burton A. Segall and Matthew T. Walsh, EE Jan./Feb. 92, p68-83.

Waste stabilization ponds

Pilot Waste-Stabilization Pond in Tanzania, Michael Yhdego, EE Mar./Apr. 92, p286-296.

Wasteload allocation

Comparison of Optimization Formulations for Waste-Load Allocations, Donald H. Burn and Barbara J. Lence, EE July/Aug. 92, p597-612.

Wastewater

Measuring Ozone by Indigo Method: Interference of Suspended Material, Mary E. Williams and Jeannie L. Darby, EE Nov./Dec. 92, p988-993.

Sludge Loading Rates for Forest Land, D. A. Haith, J. E. Reynolds, P. T. Landre and T. L. Richard, EE Mar./Apr. 92, p196-208.

Wastewater disposal

Design Procedures for Effluent Discharge to Estuaries During Ebb Tide, Tony Webb and Rodger B. Tomlinson, EE May/June 92, p338-362.

Wastewater treatment

Activity of Biomass in RBC System Treating Pulp Industrial Wastewater, Boshou Pan and L. Hartmann, EE Sept./Oct. 92, p744-754.

Expert System for Anaerobic-Digestion-Process Operation, Michael W. Barnett and John F. Andrews, EE Nov./Dec. 92, p949-963.

Metallurgical Residue for Solubilization of Metals from Sewage Sludge, D. Couillard and G. Mercier, EE Sept./Oct. 92, p808-813.

Model Study of Jet-Circulated Grit Chamber, Asher Brenner and Mordechai H. Diskin, EE Nov./Dec. 91, p782-787.

Modeling and Pilot-Scale Experimental Verification for Predenitrification Process, J. Hamilton, R. Jain, P. Antoniou, S. A. Svoronos, B. Koopman and G. Lyberatos, EE Jan./Feb. 92, p38-55.

Modeling of Toxic Wastewater Treatment by Expanded-Bed Anaerobic GAC Reactors, G. F. Nakhla and M. T. Suidan, EE July/Aug. 92, p495-512.

Operational Strategies for Predenitrification Process, R. Jain, G. Lyberatos, S. A. Svoronos and B. Koopman, EE Jan./Feb. 92, p56-67.

pH Control in Anaerobic Treatment of Industrial Wastewater, G. K. Anderson and G. Yang, EE July/Aug. 92, p551-567.

Sampling of Wastewater Effluent, Heinz G. Stefan, Thomas R. Johnson and Hugh L. McConnell, EE Mar./Apr. 92, p209-225.

Type II Sedimentation: Removal Efficiency from Column-Settling Tests, Ravindra M. Srivastava, EE May/June 92, p438-441.

Water balance

Moisture and Suction in Sanitary Landfills in Semiarid Areas, G. E. Blight, J. M. Ball and J. J. Blight, EE Nov./Dec. 92, p865-877.

Water discharge

Design Procedures for Effluent Discharge to Estuaries During Ebb Tide, Tony Webb and Rodger B. Tomlinson, EE May/June 92, p338-362.

Water distribution

Calculating Flow in Manifold and Orifice System, Fazal H. Chaudhry and Luisa F. R. Reis, EE July/Aug. 92, p585-596.

Optimal Locations of Monitoring Stations in Water Distribution System, Byoung Ho Lee and Rolf A. Deininger, EE Jan./Feb. 92, p4-16.

Water jets

Model Study of Jet-Circulated Grit Chamber, Asher Brenner and Mordechai H. Diskin, EE Nov./Dec. 91, p782-787.

Water pollution

Statistical Evaluation of Mechanistic Water-Quality Models, Kenneth H. Reckhow, J. Trevor Clements and Randall C. Dodd, EE Mar./Apr. 90, p250-268.

Water pollution control

Evaluation of BAT for VOCs in Drinking Water, Robert M. Clark and Jeffrey Q. Adams, EE Mar./Apr. 91, p247-268.

Water quality

Aeration at Ohio River Basin Navigation Dams, Steven F. Railsback, John M. Bownds, Michael J. Sale, Martha M. Stevens and George H. Taylor, EE Mar./Apr. 90, p361-375.

Comparison of Optimization Formulations for Waste-Load Allocations, Donald H. Burn and Barbara J. Lence, EE July/Aug. 92, p597-612.

Delta Method for Estimating Primary Production, Respiration, and Reaeration in Streams, Steven C. Chapra and Dominic M. Di Toro, EE Sept./Oct. 91, p640-655.

Efficiency of Jet Mixing of Temperature-Stratified Water, Heinz G. Stefan and Ruochuan Gu, EE May/June 92, p363-379.

Electroosmotic Contaminant-Removal Processes, Burton A. Segall and Clifford J. Bruell, EE Jan./Feb. 92, p84-100.

Evaluation of Ozone Disinfection Systems: Characteristic Time *T*, O. Lev and S. Regli, EE Mar./Apr. 92, p268-285.

Improved First-Order Uncertainty Method for Water-Quality Modeling, Charles S. Melching and Sharath Anmangandla, EE Sept./Oct. 92, p791-805.

Integrated Assessment of Acid-Deposition Effects on Lake Acidification, Edward S. Rubin, Mitchell J. Small, Cary N. Bloyd and Max Henrion, EE Jan./Feb. 92, p120-134.

Light-Scatter Particle Counting: Improving Filtered-Water Quality, Carrie M. Lewis and David H. Manz, EE Mar./Apr. 91, p209-223.

Measuring Ozone by Indigo Method: Interference of Suspended Material, Mary E. Williams and Jeannie L. Darby, EE Nov./Dec. 92, p988-993.

Removal of 1,2 Dibromo-3-Chloropropane by Countercurrent Cascade Air Stripping, N. Nirmalakhandan, Won Jang and Richard E. Speece, EE Mar./Apr. 92, p226-237.

Statistical Evaluation of Mechanistic Water-Quality Models, Kenneth H. Reckhow, J. Trevor Clements and Randall C. Dodd, EE Mar./Apr. 90, p250-268.

Storm Runoff Detention for Pollutant Removal, A. Osman Akan, EE May/June 92, p380-389.

Water, Endangered Ecosystem: Assessment of Chemical Pollution, Werner Stumm, EE July/Aug. 92, p466-476.

Water resources management

Improved First-Order Uncertainty Method for Water-Quality Modeling, Charles S. Melching and Sharath Anmangandla, EE Sept./Oct. 92, p791-805.

Water speed

Model Study of Jet-Circulated Grit Chamber, Asher Brenner and Mordechai H. Diskin, EE Nov./Dec. 91, p782-787.

Water supply

Softening by Fluidized Bed Crystallizers, Willard D. Harms, Jr. and R. Bruce Robinson, EE July/Aug. 92, p513-529.

Water supply systems

Optimal Locations of Monitoring Stations in Water Distribution System, Byoung Ho Lee and Rolf A. Deininger, EE Jan./Feb. 92, p4-16.

Water treatment

Chemical Dosing of Small Water Utilities Using Regression Analysis, Glenn W. Ellis, Anthony G. Collins, Xi Ge and Catherine R. Ford, EE May/June 91, p308-319.

Effect of Collector Dosage on Metal Removal by Precipitation/Flotation, Venbakm C. Gopalratnam, Gary F. Bennett and Robert W. Peters, EE Nov./Dec. 92, p923-948.

Engineering Behavior of Water Treatment Sludge, M. C. Wang, J. Q. Hull, M. Jao, B. A. Dempsey and D. A. Cornwell, EE Nov./Dec. 92, p848-864.

Evaluation of BAT for VOCs in Drinking Water, Robert M. Clark and Jeffrey Q. Adams, EE Mar./Apr. 91, p247-268.

Evaluation of Ozone Disinfection Systems: Characteristic Time *T*, O. Lev and S. Regli, EE Mar./Apr. 92, p268-285.

Evaluation of Ozone Disinfection Systems: Characteristic Concentration *C*, O. Lev and S. Regli, EE July/Aug. 92, p477-494.

Light-Scatter Particle Counting: Improving Filtered-Water Quality, Carrie M. Lewis and David H. Manz, EE Mar./Apr. 91, p209-223.

Softening by Fluidized Bed Crystallizers, Willard D. Harms, Jr. and R. Bruce Robinson, EE July/Aug. 92, p513-529.

TOC Removal by Coagulation and Softening, S. R. Qasim, S. A. Hasham and N. I. Ansari, EE May/June 92, p432-437.

Waves

Laboratory Study of Oil Slick Subjected to Nearshore Circulation, A. G. L. Borthwick and S. A. Joynes, EE Nov./Dec. 92, p905-922.

Weirs

Gas-Transfer Measurements Using Headspace Analysis of Propane, John R. Thene and John S. Gulliver, EE Nov./Dec. 90, p1107-1124.

Wells

Evaluation of Collection-Well Parameters for DNAPL, K. Schmidtke, E. McBean and F. Rovers, EE Mar./Apr. 92, p183-195.

Yield

Effect of Nitrogen on Yield Using Bioenergetics Theory, R. L. Droste, EE Sept./Oct. 92, p814-820.

AUTHOR INDEX

Ackerman, Josef Daniel
Investigation of Zebra Mussel Adhesion Strength Using a Rotating Disk, with C. Ross Ethier, D. Grant Allen and Jan K. Spelt, EE Sept./Oct. 92, p708-724

Adams, Jeffrey Q.
see Clark, Robert M., EE Mar./Apr. 91, p247-268

Akan, A. Osman
Storm Runoff Detention for Pollutant Removal, EE May/June 92, p380-389

Allen, D. Grant
see Ackerman, Josef Daniel, EE Sept./Oct. 92, p708-724

Anderson, G. K.
pH Control in Anaerobic Treatment of Industrial Wastewater, with G. Yang, EE July/Aug. 92, p551-567

Andrews, John F.
see Barnett, Michael W., EE Nov./Dec. 92, p949-963

Anmangandla, Sharath
see Melching, Charles S., EE Sept./Oct. 92, p791-805

Ansari, N. I.
see Qasim, S. R., EE May/June 92, p432-437

Antoniou, P.
see Hamilton, J., EE Jan./Feb. 92, p38-55

Auclair, J. C.
see Blais, J. F., EE Sept./Oct. 92, p690-707

Ball, J. M.
see Blight, G. E., EE Nov./Dec. 92, p865-877

Barnett, Michael W.
Expert System for Anaerobic-Digestion-Process Operation, with John F. Andrews, EE Nov./Dec. 92, p949-963

Barnwell, Thomas O., Jr.
see Lovell, Jeffrey S., (disc), EE Sept./Oct. 90, p988-990

Bennett, Gary F.
see Gopalratnam, Venbakm C., EE Nov./Dec. 92, p923-948

Bewtra, J. K.
see Machina, D. W., EE Mar./Apr. 92, p253-267

Bierman, Victor J., Jr.
see Bonner, James S., EE Jan./Feb. 92, p101-119
see Preston, Stephen D., EE May/June 92, p402-419

Blais, J. F.
Bioleaching of Metals from Sewage Sludge by Sulfur-Oxidizing Bacteria, with R. D. Tyagi and J. C. Auclair, EE Sept./Oct. 92, p690-707

Blight, G. E.
Moisture and Suction in Sanitary Landfills in Semiarid Areas, with J. M. Ball and J. J. Blight, EE Nov./Dec. 92, p865-877

Blight, J. J.
see Blight, G. E., EE Nov./Dec. 92, p865-877

Bloyd, Cary N.
see Rubin, Edward S., EE Jan./Feb. 92, p120-134

Blum, D. J. W.
see Tang, N. H., EE Jan./Feb. 92, p17-37

Boley, Gary
see Ham, Robert K., EE Sept./Oct. 92, p725-743

Bonner, James S.
Transport of Low-Level Radioactive Soil at Deep-Ocean Disposal Site, with Carlton D. Hunt, John F. Paul and Victor J. Bierman, Jr., EE Jan./Feb. 92, p101-119

Borthwick, A. G. L.
Laboratory Study of Oil Slick Subjected to Nearshore Circulation, with S. A. Joynes, EE Nov./Dec. 92, p905-922

Bownds, John M.
see Railsback, Steven F., EE Mar./Apr. 90, p361-375

Brenner, Asher
Model Study of Jet-Circulated Grit Chamber, with Mordechai H. Diskin, EE Nov./Dec. 91, p782-787
disc: Hasan Z. Sarikaya, EE Nov./Dec. 92, p1009
clo: EE Nov./Dec. 92, p1010-1011

Bretscher, Ulrich
Improvement of Flow in Final Settling Tanks, with Peter Krebs and Willi H. Hager, EE May/June 92, p307-321

Bruell, Clifford J.
Electroosomotic Removal of Gasoline Hydrocarbons and TCE From Clay, with Burton A. Segall and Matthew T. Walsh, EE Jan./Feb. 92, p68-83
see Segall, Burton A., EE Jan./Feb. 92, p84-100

Brune, David
see Yantarasri, Thongchai, EE July/Aug. 92, p568-584

Burn, Donald H.
Comparison of Optimization Formulations for Waste-Load Allocations, with Barbara J. Lence, EE July/Aug. 92, p597-612

Burris, David
see Hatfield, Kirk, EE May/June 92, p322-337

Butler, David
disc. (of Graphs for Hydraulic Design of Sanitary Sewers, by Venkateswarlu Swarna and Prasad M. Modak, EE May/June 90, p561-574), EE July/Aug. 92, p630-633

Chapra, Steven C.
Delta Method for Estimating Primary Production, Respiration, and Reaeration in Streams, with Dominic M. Di Toro, EE Sept./Oct. 91, p640-655
err: EE Mar./Apr. 92, p304
disc: Ronald R. H. Cohen, EE Nov./Dec. 92, p1001-1003

disc: John B. Erdmann, EE Nov./Dec. 92, p1003-1006
disc: Michael G. Waldon, EE Nov./Dec. 92, p1006-1007
clo: EE Nov./Dec. 92, p1007-1008

Chaudhry, Fazal H.
Calculating Flow in Manifold and Orifice System, with Luisa F. R. Reis, EE July/Aug. 92, p585-596

Choudhari, Nilay
BOD Test for Tropical Countries, with Paritosh C. Tyagi, N. Niyogi, V. P. Thergaonkar and P. Khanna, EE Mar./Apr. 92, p298-303

Clark, Robert M.
Evaluation of BAT for VOCs in Drinking Water, with Jeffrey Q. Adams, EE Mar./Apr. 91, p247-268
disc: James M. Symons, EE May/June 92, p458-459

Clements, J. Trevor
see Reckhow, Kenneth H., EE Mar./Apr. 90, p250-268

Clifft, R. C.
Gas Phase Control for Oxygen-Activated Sludge, EE May/June 92, p390-401

Cohen, Ronald R. H.
disc. (of Delta Method for Estimating Primary Production, Respiration, and Reaeration in Streams, by Steven C. Chapra and Dominic M. Di Toro, EE Sept./Oct. 91, p640-655), EE Nov./Dec. 92, p1001-1003

Collins, Anthony G.
see Ellis, Glenn W., EE May/June 91, p308-319

Cornwell, D. A.
see Wang, M. C., EE Nov./Dec. 92, p848-864

Couillard, D.
Metallurgical Residue for Solubilization of Metals from Sewage Sludge, with G. Mercier, EE Sept./Oct. 92, p808-813

Darby, Jeannie L.
see Williams, Mary E., EE Nov./Dec. 92, p988-993

Deininger, Rolf A.
see Lee, Byoung Ho, EE Jan./Feb. 92, p4-16

Dempsey, B. A.
see Wang, M. C., EE Nov./Dec. 92, p848-864

Dentel, Steven K.
disc. (of Chemical Dosing of Small Water Utilities Using Regression Analysis, by Glenn W. Ellis, Anthony G. Collins, Xi Ge and Catherine R. Ford, EE May/June 91, p308-319), EE Nov./Dec. 92, p996-999

Dhir, Vijay K.
see Lingineni, Suresh, EE Jan./Feb. 92, p135-152

Di Toro, Dominic M.
see Chapra, Steven C., EE Sept./Oct. 91, p640-655

Diskin, Mordechai H.
see Brenner, Asher, EE Nov./Dec. 91, p782-787

Dodd, Randall C.
see Reckhow, Kenneth H., EE Mar./Apr. 90, p250-268

Droste, R. L.
Effect of Nitrogen on Yield Using Bioenergetics Theory, EE Sept./Oct. 92, p814-820

Ellis, Glenn W.
Chemical Dosing of Small Water Utilities Using Regression Analysis, with Anthony G. Collins, Xi Ge and Catherine R. Ford, EE May/June 91, p308-319
disc: Steven K. Dentel, EE Nov./Dec. 92, p996-999
clo: EE Nov./Dec. 92, p999-1001

Englehardt, James D.
Information Theory in Risk Analysis, with Jay R. Lund, EE Nov./Dec. 92, p890-904

Erdmann, John B.
disc. (of Delta Method for Estimating Primary Production, Respiration, and Reaeration in Streams, by Steven C. Chapra and Dominic M. Di Toro, EE Sept./Oct. 91, p640-655), EE Nov./Dec. 92, p1003-1006

Ethier, C. Ross
see Ackerman, Josef Daniel, EE Sept./Oct. 92, p708-724

Everett, Jess W.
see Jacobs, Timothy L., EE May/June 92, p420-429

Ford, Catherine R.
see Ellis, Glenn W., EE May/June 91, p308-319

Garcia, Albert, III.
see Yantarasri, Thongchai, EE July/Aug. 92, p568-584

Ge, Xi
see Ellis, Glenn W., EE May/June 91, p308-319

Gopalratnam, Venbakm C.
Effect of Collector Dosage on Metal Removal by Precipitation/Flotation, with Gary F. Bennett and Robert W. Peters, EE Nov./Dec. 92, p923-948

Graham, N. J. D.
see Ojha, C. S. P., EE Nov./Dec. 92, p964-980

Gu, Ruochuan
see Stefan, Heinz G., EE May/June 92, p363-379

Gulliver, John S.
disc. (of Aeration at Ohio River Basin Navigation Dams, by Steven F. Railsback, John M. Bownds, Michael J. Sale, Martha M. Stevens and George H. Taylor, EE Mar./Apr. 90, p361-375) with Steven C. Wilhelms, EE May/June 92, p444-446
see Thene, John R., EE Nov./Dec. 90, p1107-1124

Hager, Willi H.
see Bretscher, Ulrich, EE May/June 92, p307-321

Haith, D. A.
Sludge Loading Rates for Forest Land, with J. E. Reynolds, P. T. Landre and T. L. Richard, EE Mar./Apr. 92, p196-208

Ham, Robert K.
Partitioning of Elements by Refuse Processing, with Victor A. Hammer and Gary Boley, EE Sept./Oct. 92, p725-743

Hamilton, J.
Modeling and Pilot-Scale Experimental Verification for Predenitrification Process, with R. Jain, P. Antoniou, S. A. Svoronos, B. Koopman and G. Lyberatos, EE Jan./Feb. 92, p38-55

Hammer, Victor A.
see Ham, Robert K., EE Sept./Oct. 92, p725-743

Harmon, Thomas C.
Simulating Solute Transport Using Laboratory-Based Sorption Parameters, with Lewis Semprini and Paul V. Roberts, EE Sept./Oct. 92, p666-689

Harms, Willard D., Jr.
Softening by Fluidized Bed Crystallizers, with R. Bruce Robinson, EE July/Aug. 92, p513-529

Hartmann, L.
see Pan, Boshou, EE Sept./Oct. 92, p744-754

Hasham, S. A.
see Qasim, S. R., EE May/June 92, p432-437

Hatfield, Kirk
Theory and Experiments on Subsurface Contaminant Sorption Systems, with David Burris, Thomas B. Stauffer and Joe Ziegler, EE May/June 92, p322-337

Hendricks, David W.
see Vagliasindi, Federico, EE July/Aug. 92, p530-550

Henrion, Max
see Rubin, Edward S., EE Jan./Feb. 92, p120-134

Hossain, M. Akram
Finite Element Modeling of Single-Solute Activated-Carbon Adsorption, with David R. Yonge, EE Mar./Apr. 92, p238-252

Hua, Hesong
Accurate Method for Calculation of Saturation DO, EE Sept./Oct. 90, p988-990
disc: Jeffrey S. Lovell, Timothy J. Register, Steve C. McCutcheon and Thomas O. Barnwell, Jr., EE Sept./Oct. 92, p822-824
clo: EE Sept./Oct. 92, p824-826

Hull, J. Q.
see Wang, M. C., EE Nov./Dec. 92, p848-864

Hunt, Carlton D.
see Bonner, James S., EE Jan./Feb. 92, p101-119

Jacobs, Timothy L.
Optimal Scheduling of Consecutive Landfill Operations with Recycling, with Jess W. Everett, EE May/June 92, p420-429
Probabilistic Environmental Risk of Hazardous Materials, with P. Aarne Vesilind, EE Nov./Dec. 92, p878-889

Jain, R.
Operational Strategies for Predenitrification Process, with G. Lyberatos, S. A. Svoronos and B. Koopman, EE Jan./Feb. 92, p56-67
see Hamilton, J., EE Jan./Feb. 92, p38-55

Jang, Won
see Nirmalakhandan, N., EE Mar./Apr. 92, p226-237

Jao, M.
see Wang, M. C., EE Nov./Dec. 92, p848-864

Johnson, Thomas R.
see Stefan, Heinz G., EE Mar./Apr. 92, p209-225

Joynes, S. A.
see Borthwick, A. G. L., EE Nov./Dec. 92, p905-922

Khanna, P.
see Choudhari, Nilay, EE Mar./Apr. 92, p298-303

Knocke, William R.
Conditioning and Dewatering of Anaerobically Digested BPR Sludge, with Jeffrey W. Nash and Clifford W. Randall, EE Sept./Oct. 92, p642-656

Kokitkar, Prashant
see Koussis, Antonis D., EE May/June 90, p601-614

Koopman, B.
see Hamilton, J., EE Jan./Feb. 92, p38-55
see Jain, R., EE Jan./Feb. 92, p56-67

Koussis, Antonis D.
Modeling DO Conditions in Streams with Dispersion, with Prashant Kokitkar and Adosh Mehta, EE May/June 90, p601-614
disc: Steve C. McCutcheon, EE Jan./Feb. 92, p156-159
clo: EE Jan./Feb. 92, p159-160

Krebs, Peter
see Bretscher, Ulrich, EE May/June 92, p307-321

Landre, P. T.
see Haith, D. A., EE Mar./Apr. 92, p196-208

Lee, Byoung Ho
Optimal Locations of Monitoring Stations in Water Distribution System, with Rolf A. Deininger, EE Jan./Feb. 92, p4-16

Lee, Chi-Yuan
Model for Biological Reactors Having Suspended and Attached Growths, EE Nov./Dec. 92, p982-987

Lence, Barbara J.
see Burn, Donald H., EE July/Aug. 92, p597-612

Lev, O.
Evaluation of Ozone Disinfection Systems: Characteristic Time *T*, with S. Regli, EE Mar./Apr. 92, p268-285
Evaluation of Ozone Disinfection Systems: Characteristic Concentration *C*, with S. Regli, EE July/Aug. 92, p477-494

Lewis, Carrie M.
Light-Scatter Particle Counting: Improving Filtered-Water Quality, with David H. Manz, EE Mar./Apr. 91, p209-223
err: EE Mar./Apr. 92, p304

Lingineni, Suresh
Modeling of Soil Venting Processes to Remediate Unsaturated Soils, with Vijay K. Dhir, EE Jan./Feb. 92, p135-152

Little, Keith W.
disc. (of Statistical Evaluation of Mechanistic Water-Quality Models, by Kenneth H. Reckhow, J. Trevor Clements and Randall C. Dodd, EE Mar./Apr. 90, p250-268) with Nancy F. Stevens, EE Jan./Feb. 92, p154-155

Lovell, Jeffrey S.
disc. (of Accurate Method for Calculation of Saturation DO, by Hesong Hua, EE Sept./Oct. 90, p988-990) with Timothy J. Register, Steve C. McCutcheon and Thomas O. Barnwell, Jr., EE Sept./Oct. 92, p822-824

Lund, Jay R.
see Englehardt, James D., EE Nov./Dec. 92, p890-904

Lyberatos, G.
see Hamilton, J., EE Jan./Feb. 92, p38-55
see Jain, R., EE Jan./Feb. 92, p56-67

Machina, D. W.
Numerical and Physical Modeling of Air Diffuser Plume, with J. A. McCorquodale and J. K. Bewtra, EE Mar./Apr. 92, p253-267

Manz, David H.
see Lewis, Carrie M., EE Mar./Apr. 91, p209-223

McBean, E.
see Schmidtke, K., EE Mar./Apr. 92, p183-195

McConnell, Hugh L.
see Stefan, Heinz G., EE Mar./Apr. 92, p209-225

McCorquodale, J. A.
see Machina, D. W., EE Mar./Apr. 92, p253-267
see Zhou, Siping, EE Nov./Dec. 92, p829-847

McCutcheon, Steve C.
disc. (of Modeling DO Conditions in Streams with Dispersion, by Antonis D. Koussis, Prashant Kokitkar and Adosh Mehta, EE May/June 90, p601-614), EE Jan./Feb. 92, p156-159
see Lovell, Jeffrey S., (disc), EE Sept./Oct. 90, p988-990

Mehta, Adosh
see Koussis, Antonis D., EE May/June 90, p601-614

Melching, Charles S.
Improved First-Order Uncertainty Method for Water-Quality Modeling, with Sharath Anmangandla, EE Sept./Oct. 92, p791-805

Mercier, G.
see Couillard, D., EE Sept./Oct. 92, p808-813

Modak, Prasad M.
see Swarna, Venkateswarlu, EE May/June 90, p561-574

Nakhla, G. F.
Modeling of Toxic Wastewater Treatment by Expanded-Bed Anaerobic GAC Reactors, with M. T. Suidan, EE July/Aug. 92, p495-512

Nash, Jeffrey W.
see Knocke, William R., EE Sept./Oct. 92, p642-656

Nirmalakhandan, N.
Removal of 1,2 Dibromo-3-Chloropropane by Countercurrent Cascade Air Stripping, with Won Jang and Richard E. Speece, EE Mar./Apr. 92, p226-237
see Tang, N. H., EE Jan./Feb. 92, p17-37

Niyogi, N.
see Choudhari, Nilay, EE Mar./Apr. 92, p298-303

Ojha, C. S. P.
Appropriate Use of Deep-Bed Filtration Models, with N. J. D. Graham, EE Nov./Dec. 92, p964-980

Palermo, Michael R.
see Thackston, Edward L., EE Sept./Oct. 92, p657-665

Pan, Boshou
Activity of Biomass in RBC System Treating Pulp Industrial Wastewater, with L. Hartmann, EE Sept./Oct. 92, p744-754

Paul, John F.
see Bonner, James S., EE Jan./Feb. 92, p101-119

Peters, Robert W.
see Gopalratnam, Venbakm C., EE Nov./Dec. 92, p923-948

Preston, Stephen D.
Impact of Flow Variability on Error in Estimation of Tributary Mass Loads, with Victor J. Bierman, Jr. and Stephen E. Silliman, EE May/June 92, p402-419

Qasim, S. R.
TOC Removal by Coagulation and Softening, with S. A. Hasham and N. I. Ansari, EE May/June 92, p432-437

Railsback, Steven F.
Aeration at Ohio River Basin Navigation Dams, with John M. Bownds, Michael J. Sale, Martha M. Stevens and George H. Taylor, EE Mar./Apr. 90, p361-375
disc: John S. Gulliver and Steven C. Wilhelms, EE May/June 92, p444-446
disc: Ronald E. Rathbun, EE May/June 92, p446-447
clo: EE May/June 92, p447-451

Ramana, Anuradha
Removing Selenium(IV) and Arsenic(V) Oxyanions with Tailored Chelating Polymers, with Arup K. Sengupta, EE Sept./Oct. 92, p755-775

Randall, Clifford W.
see Knocke, William R., EE Sept./Oct. 92, p642-656

Rathbun, Ronald E.
disc. (of Aeration at Ohio River Basin Navigation Dams, by Steven F. Railsback, John M. Bownds, Michael J. Sale, Martha M. Stevens and George H. Taylor, EE Mar./Apr. 90, p361-375), EE May/June 92, p446-447
disc. (of Gas-Transfer Measurements Using Headspace Analysis of Propane, by John R. Thene and John S. Gulliver, EE Nov./Dec. 90, p1107-1124), EE May/June 92, p454-456

Reckhow, Kenneth H.
Statistical Evaluation of Mechanistic Water-Quality Models, with J. Trevor Clements and Randall C. Dodd, EE Mar./Apr. 90, p250-268
disc: Keith W. Little and Nancy F. Stevens, EE Jan./Feb. 92, p154-155
clo: EE Jan./Feb. 92, p155-156

Register, Timothy J.
see Lovell, Jeffrey S., (disc), EE Sept./Oct. 90, p988-990

Regli, S.
see Lev, O., EE Mar./Apr. 92, p268-285

see Lev, O., EE July/Aug. 92, p477-494

Reis, Luisa F. R.
see Chaudhry, Fazal H., EE July/Aug. 92, p585-596

Reynolds, J. E.
see Haith, D. A., EE Mar./Apr. 92, p196-208

Richard, T. L.
see Haith, D. A., EE Mar./Apr. 92, p196-208

Roberts, Paul V.
see Harmon, Thomas C., EE Sept./Oct. 92, p666-689

Robinson, R. Bruce
see Harms, Willard D., Jr., EE July/Aug. 92, p513-529

Rovers, F.
see Schmidtke, K., EE Mar./Apr. 92, p183-195

Rubin, Edward S.
Integrated Assessment of Acid-Deposition Effects on Lake Acidification, with Mitchell J. Small, Cary N. Bloyd and Max Henrion, EE Jan./Feb. 92, p120-134

Saatçi, A.
Velocity and Depth of Flow Calculations in Partially Filled Pipes, EE Nov./Dec. 90, p1202-1208
disc: William Wheeler, EE May/June 92, p451-454
clo: EE May/June 92, p454

Saatçi, A. M.
disc. (of Graphs for Hydraulic Design of Sanitary Sewers, by Venkateswarlu Swarna and Prasad M. Modak, EE May/June 90, p561-574), EE July/Aug. 92, p633-635

Sale, Michael J.
see Railsback, Steven F., EE Mar./Apr. 90, p361-375

San, Hasan Ali
Mechanism of Biological Treatment in Plug-Flow or Batch Systems, EE July/Aug. 92, p614-628

Sarikaya, Hasan Z.
disc. (of Model Study of Jet-Circulated Grit Chamber, by Asher Brenner and Mordechai H. Diskin, EE Nov./Dec. 91, p782-787), EE Nov./Dec. 92, p1009

Schmidtke, K.
Evaluation of Collection-Well Parameters for DNAPL, with E. McBean and F. Rovers, EE Mar./Apr. 92, p183-195

Segall, Burton A.
Electroosmotic Contaminant-Removal Processes, with Clifford J. Bruell, EE Jan./Feb. 92, p84-100
see Bruell, Clifford J., EE Jan./Feb. 92, p68-83

Semprini, Lewis
see Harmon, Thomas C., EE Sept./Oct. 92, p666-689

Sengupta, Arup K.
see Ramana, Anuradha, EE Sept./Oct. 92, p755-775

Serrano, Sergio E.
Migration of Chloroform in Aquifers, EE Mar./Apr. 92, p167-182

Silliman, Stephen E.
see Preston, Stephen D., EE May/June 92, p402-419

Small, Mitchell J.
see Rubin, Edward S., EE Jan./Feb. 92, p120-134

Speece, R. E.
see Tang, N. H., EE Jan./Feb. 92, p17-37

Speece, Richard E.
see Nirmalakhandan, N., EE Mar./Apr. 92, p226-237

Spelt, Jan K.
see Ackerman, Josef Daniel, EE Sept./Oct. 92, p708-724

Srivastava, Ravindra M.
Type II Sedimentation: Removal Efficiency from Column-Settling Tests, EE May/June 92, p438-441

Stauffer, Thomas B.
see Hatfield, Kirk, EE May/June 92, p322-337

Stefan, Heinz G.
Efficiency of Jet Mixing of Temperature-Stratified Water, with Ruochuan Gu, EE May/June 92, p363-379
Sampling of Wastewater Effluent, with Thomas R. Johnson and Hugh L. McConnell, EE Mar./Apr. 92, p209-225

Stevens, Martha M.
see Railsback, Steven F., EE Mar./Apr. 90, p361-375

Stevens, Nancy F.
see Little, Keith W., (disc), EE Mar./Apr. 90, p250-268

Stumm, Werner
Water, Endangered Ecosystem: Assessment of Chemical Pollution, EE July/Aug. 92, p466-476

Suidan, M. T.
see Nakhla, G. F., EE July/Aug. 92, p495-512

Svoronos, S. A.
see Hamilton, J., EE Jan./Feb. 92, p38-55
see Jain, R., EE Jan./Feb. 92, p56-67

Swarna, Venkateswarlu
Graphs for Hydraulic Design of Sanitary Sewers, with Prasad M. Modak, EE May/June 90, p561-574
disc: David Butler, EE July/Aug. 92, p630-633
disc: A. M. Saatçi, EE July/Aug. 92, p633-635
disc: Semra Siber Uluatam, EE July/Aug. 92, p635-636
clo: EE July/Aug. 92, p636-637

Symons, James M.
disc. (of Evaluation of BAT for VOCs in Drinking Water, by Robert M. Clark and Jeffrey Q. Adams, EE Mar./Apr. 91, p247-268), EE May/June 92, p458-459

Tang, N. H.
QSAR Parameters for Toxicity of Organic Chemicals to *Nitrobacter*, with D. J. W. Blum, R. E. Speece and N. Nirmalakhandan, EE Jan./Feb. 92, p17-37

Taylor, George H.
see Railsback, Steven F., EE Mar./Apr. 90, p361-375

Thackston, Edward L.
Predicting Effluent PCBs From Superfund Site Dredged Material, with Michael R. Palermo, EE Sept./Oct. 92, p657-665

Thene, John R.
Gas-Transfer Measurements Using Headspace Analysis of Propane, with John S. Gulliver, EE Nov./Dec. 90, p1107-1124
disc: Ronald E. Rathbun, EE May/June 92, p454-456
clo: EE May/June 92, p456-458

Thergaonkar, V. P.
see Choudhari, Nilay, EE Mar./Apr. 92, p298-303

Tomlinson, Rodger B.
see Webb, Tony, EE May/June 92, p338-362

Turan, Mustafa
Velocity Gradient in Filter Backwashing, EE Sept./Oct. 92, p776-790

Tyagi, Paritosh C.
see Choudhari, Nilay, EE Mar./Apr. 92, p298-303

Tyagi, R. D.
see Blais, J. F., EE Sept./Oct. 92, p690-707

Uluatam, Semra Siber
disc. (of Graphs for Hydraulic Design of Sanitary Sewers, by Venkateswarlu Swarna and Prasad M. Modak, EE May/June 90, p561-574), EE July/Aug. 92, p635-636

Vagliasindi, Federico
Wave Front Behavior in Adsorption Reactors, with David W. Hendricks, EE July/Aug. 92, p530-550

Vesilind, P. Aarne
see Jacobs, Timothy L., EE Nov./Dec. 92, p878-889

Vitasovic, Z.
see Zhou, Siping, EE Nov./Dec. 92, p829-847

Waldon, Michael G.
disc. (of Delta Method for Estimating Primary Production, Respiration, and Reaeration in Streams, by Steven C. Chapra and Dominic M. Di Toro, EE Sept./Oct. 91, p640-655), EE Nov./Dec. 92, p1006-1007

Walsh, Matthew T.
see Bruell, Clifford J., EE Jan./Feb. 92, p68-83

Wang, M. C.
Engineering Behavior of Water Treatment Sludge, with J. Q. Hull, M. Jao, B. A. Dempsey and D. A. Cornwell, EE Nov./Dec. 92, p848-864

Webb, Tony
Design Procedures for Effluent Discharge to Estuaries During Ebb Tide, with Rodger B. Tomlinson, EE May/June 92, p338-362

Wheeler, William
disc. (of Velocity and Depth of Flow Calculations in Partially Filled Pipes, by A. Saatçi, EE Nov./Dec. 90, p1202-1208), EE May/June 92, p451-454

Wilhelms, Steven C.
see Gulliver, John S., (disc), EE Mar./Apr. 90, p361-375

Williams, Mary E.
Measuring Ozone by Indigo Method: Interference of Suspended Material, with Jeannie L. Darby, EE Nov./Dec. 92, p988-993

Yang, G.
see Anderson, G. K., EE July/Aug. 92, p551-567

Yantarasri, Thongchai
Thermodynamic Model of Nitrification Kinetics, with Albert Garcia, III. and David Brune, EE July/Aug. 92, p568-584

Yhdego, Michael
Pilot Waste-Stabilization Pond in Tanzania, EE Mar./Apr. 92, p286-296

Yonge, David R.
see Hossain, M. Akram, EE Mar./Apr. 92, p238-252

Zhou, Siping
Influences of Density on Circular Clarifiers with Baffles, with J. A. McCorquodale and Z. Vitasovic, EE Nov./Dec. 92, p829-847

Ziegler, Joe
see Hatfield, Kirk, EE May/June 92, p322-337